

Arlington High School Building Committee
Finance Subcommittee Meeting
Wednesday, March 16, 2022
Conducted by Remote Participation
4:00 PM – 5:00 PM
Agenda

- ◆ Budget Update
- ◆ Change Logs Review
- ◆ Change Order #12 Review/Approval
- ◆ Requisition #23 Review/Approval
- ◆ HMFH/BALA Change to Natural Gas to Serve Temp Boiler
Additional Services Proposal Review/Approval
- ◆ Meeting Minutes Approval
- ◆ New Business

<https://www.mass.gov/doc/open-meeting-law-order-march-12-2020/download>

Sandy Pooler is inviting you to a scheduled Zoom meeting.

Topic: Sandy Pooler's Personal Meeting Room

Join Zoom Meeting

<https://town-arlington-ma-us.zoom.us/j/4861088649>

Meeting ID: 486 108 8649

One tap mobile

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Meeting ID: 486 108 8649

Find your local number: <https://town-arlington-ma-us.zoom.us/j/kcILFOqWsb>

3/16/2022 AHSBC Finance Subcommittee Meeting Meeting Materials

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Draft Vote Language –

1. Motion to approve Consigli AHS Requisition #23 for \$1,709,783.89.
2. Motion to approve Change Order No. 12 for a total of \$93,617.67.
3. Motion to approve HMFH/BALA Addition Service Request Change to Natural Gas to Serve Temp Boiler for a total not to exceed value of \$10,450.00.

Contingencies

Owner's Contingency		
\$ Original	\$ Remaining Current	\$ Remaining Anticipated
\$2,769,807	\$1,509,780	\$1,509,780 ➔
Construction Contingency		
\$ Original	\$ Remaining Current	\$ Remaining Anticipated
\$7,075,741	\$6,051,447	\$6,051,447 ➔
TBD		
\$ Original	\$ Remaining Current	\$ Remaining Anticipated
\$0	\$0	\$0 ➔
TBD		
\$ Original	\$ Remaining Current	\$ Remaining Anticipated
\$0	\$0	\$0 ➔

Current Pay Period

Pay App No.: 54

Pay App Amount: \$403,240.13

Pro Pay

Amount Submitted: \$111,940,200.07

Amount Reimbursed: \$26,128,505.00

Change Events

Change as % of Orig. Budget:	Number	Amount
Approved Changes:	47	\$1,124,294
Submitted Changes:	0	\$0
Pending Changes:	0	\$0
Rejected Changes:	0	\$0
Approved Budget Transfers:	33	\$2,114,748

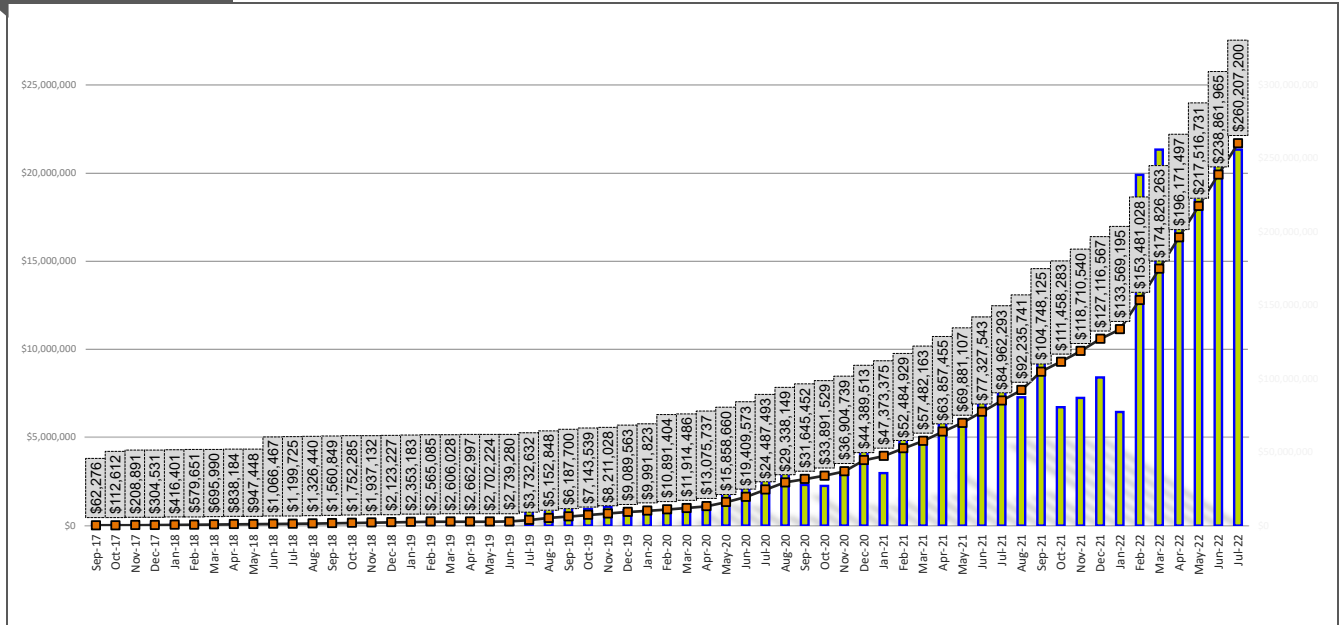
Total Budget:
\$289,892,340
Cost of work + Contingency

Total Committed:	%
\$277,472,172	96%
Contracts / PO's executed	

Total Spent	%
\$115,284,274	42%
Amount invoiced	

Cost at Completion:	%
\$277,472,172	96%
Committed + Submitted Changes	

Cash Flow



Key Contracts

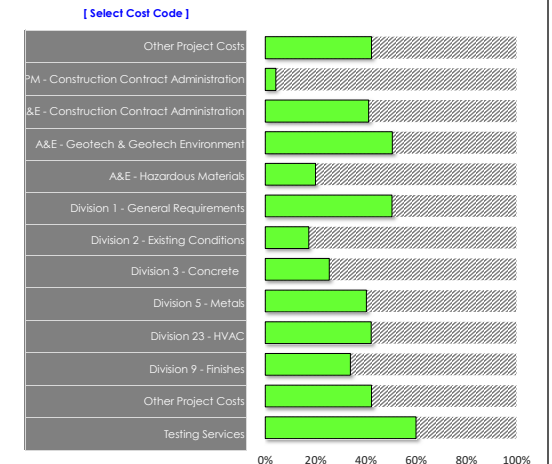
Firm:	Skanska USA Building
Original Contract Amount:	\$442,880
Contract Changes to Date:	\$7,384,600
Total Amount:	\$7,827,480
Invoiced to Date:	\$3,285,198
Contract Amount Remaining:	\$4,542,282
	42%

Firm:	HMFH Architects, Inc.
Original Contract Amount:	\$1,169,533
Contract Changes to Date:	\$21,330,552
Total Amount:	\$22,500,085
Invoiced to Date:	\$16,615,996
Contract Amount Remaining:	\$5,884,089
	74%

Firm:	McPhail Associated
Original Contract Amount:	\$997,436
Contract Changes to Date:	\$823,413
Total Amount:	\$1,820,849
Invoiced to Date:	\$1,018,283
Contract Amount Remaining:	\$802,565
	56%

Firm:	Consigli Construction Company
Original Contract Amount:	\$237,143,157
Contract Changes to Date:	\$1,097,341
Total Amount:	\$238,240,498
Invoiced to Date:	\$90,930,612
Contract Amount Remaining:	\$147,309,887
	38%

Budget vs. Actual



Report By Cost Code - Summary

	TOTAL:	\$281,206,819	\$277,472,172	\$3,734,646	\$115,284,274	\$162,187,898
Cost Code Description	Cost Code	Approved Budget Amount	Committed Amount	Budget Remaining	Invoice to Date	Remaining Invoice Amount
OPM - Feasibility Study	0001-0000	\$442,880	\$442,880	\$0	\$439,550	\$3,331
A&E - Feasibility Study	0002-0000	\$1,285,582	\$1,285,582	\$0	\$1,285,582	\$0
Environmental & Site	0003-0000	\$261,690	\$261,690	\$0	\$257,009	\$4,681
Other	0004-0000	\$9,848	\$2,138	\$7,710	\$2,138	(\$0)
Legal Fees	0101-0000	\$82,708	\$0	\$82,708	\$0	\$0
OPM - Design Development	0102-0400	\$738,194	\$738,194	\$0	\$738,194	\$0
OPM - Construction Contract Documents	0102-0500	\$1,564,643	\$1,564,643	\$0	\$1,564,643	\$0
OPM - Bidding	0102-0600	\$360,097	\$360,097	\$0	\$360,097	\$0
OPM - Construction Contract Administration	0102-0700	\$4,355,342	\$4,355,342	\$0	\$182,715	\$4,172,627
OPM - Closeout	0102-0800	\$366,324	\$366,324	\$0	\$0	\$366,324
Owner's Insurance	0105-0000	\$725,825	\$725,825	\$0	\$725,778	\$47
A&E - Design Development	0201-0400	\$4,224,185	\$4,224,185	\$0	\$4,224,185	\$0
A&E - Construction Contract Documents	0201-0500	\$6,893,667	\$6,893,667	\$0	\$6,883,217	\$10,450
A&E - Bidding	0201-0600	\$422,419	\$422,419	\$0	\$422,419	\$0
A&E - Construction Contract Administration	0201-0700	\$9,346,945	\$9,346,945	\$0	\$3,848,032	\$5,498,913
A&E - Closeout	0201-0800	\$372,521	\$372,521	\$0	\$0	\$372,521
A&E - Other Basic Services	0201-9900	\$39,781	\$35,750	\$4,031	\$8,800	\$26,950
A&E - Printing (Over Minimum)	0203-0200	\$10,000	\$0	\$10,000	\$0	\$0
A&E - Other Reimbursable Costs	0203-9900	\$2,369	\$2,370	(\$0)	\$2,239	\$131
A&E - Hazardous Materials	0204-0200	\$525,000	\$379,324	\$145,676	\$104,973	\$274,351

Report By Cost Code - Summary

	TOTAL:	\$281,206,819	\$277,472,172	\$3,734,646	\$115,284,274	\$162,187,898
Cost Code Description	Cost Code	Approved Budget Amount	Committed Amount	Budget Remaining	Invoice to Date	Remaining Invoice Amount
A&E - Geotech & Geotech Environment	0204-0300	\$1,662,009	\$1,634,509	\$27,500	\$840,394	\$794,115
A&E - Wetlands	0204-0500	\$1,090	\$0	\$1,090	\$0	\$0
A&E - Traffic Studies	0204-1200	\$95,810	\$95,810	\$0	\$81,695	\$14,115
Pre-Construction Services	0501-0000	\$305,508	\$305,508	\$0	\$305,508	\$0
GMP - Fee	0502-0010	\$4,733,848	\$4,733,848	\$0	\$1,679,744	\$3,054,104
GMP - Insurance	0502-0020	\$6,212,555	\$6,212,555	\$0	\$6,199,097	\$13,458
GMP - Contingency	0502-0030	\$7,883,560	\$7,883,560	\$0	\$216,604	\$7,666,957
Division 1 - General Requirements	0502-0100	\$17,512,259	\$17,512,259	\$0	\$8,830,737	\$8,681,523
Division 2 - Existing Conditions	0502-0200	\$7,032,406	\$7,032,406	\$0	\$1,215,295	\$5,817,111
Division 3 - Concrete	0502-0300	\$15,511,220	\$15,511,220	\$0	\$3,950,701	\$11,560,519
Division 4 - Masonry	0502-0400	\$6,668,000	\$6,668,000	\$0	\$2,199,950	\$4,468,050
Division 5 - Metals	0502-0500	\$19,717,018	\$19,717,018	\$0	\$7,936,349	\$11,780,669
Division 6 - Woods, Plastics and Composites	0502-0600	\$3,636,763	\$3,636,763	\$0	\$2,079,907	\$1,556,856
Division 7 - Thermal and Moisture Protection	0502-0700	\$9,172,086	\$9,172,086	\$0	\$3,374,173	\$5,797,913
Division 8 - Openings	0502-0800	\$8,572,580	\$8,572,580	\$0	\$4,485,665	\$4,086,915
Division 9 - Finishes	0502-0900	\$31,134,737	\$31,134,737	\$0	\$10,558,674	\$20,576,063
Division 10 - Specialties	0502-1000	\$1,778,736	\$1,778,736	\$0	\$1,002,003	\$776,733
Division 11 - Equipment	0502-1100	\$2,533,302	\$2,533,302	\$0	\$416,498	\$2,116,804
Division 12 - Furnishings	0502-1200	\$2,505,022	\$2,505,022	\$0	\$1,201,491	\$1,303,531
Division 14 - Conveying Systems	0502-1400	\$690,000	\$690,000	\$0	\$199,200	\$490,800

Report By Cost Code - Summary

	TOTAL:	\$281,206,819	\$277,472,172	\$3,734,646	\$115,284,274	\$162,187,898
Cost Code Description	Cost Code	Approved Budget Amount	Committed Amount	Budget Remaining	Invoice to Date	Remaining Invoice Amount
Division 21 - Fire Suppression	0502-2100	\$2,752,300	\$2,752,300	\$0	\$1,389,475	\$1,362,825
Division 22 - Plumbing	0502-2200	\$5,881,250	\$5,881,250	\$0	\$2,867,702	\$3,013,548
Division 26 - Electrical	0502-2600	\$20,348,587	\$20,348,587	\$0	\$10,807,654	\$9,540,933
Division 31 - Earthwork	0502-3100	\$2,595,698	\$2,595,698	\$0	\$129,019	\$2,466,679
Division 32 - Exterior Improvements	0502-3200	\$26,834,384	\$26,834,384	\$0	\$8,239,354	\$18,595,030
Utility Company Fees	0601-0000	\$250,000	\$159,103	\$90,897	\$153,015	\$6,088
Testing Services	0602-0000	\$750,000	\$745,377	\$4,623	\$450,158	\$295,219
Swing-Space/Modulars	0603-0000	\$2,580,810	\$2,580,810	\$0	\$2,576,882	\$3,928
Other Project Costs	0699-0000	\$956,930	\$948,407	\$8,523	\$404,669	\$543,738
Furnishings	0701-0000	\$4,036,500	\$1,484,501	\$2,551,999	\$0	\$1,484,501
Equipment	0702-0000	\$4,036,500	\$2,209,776	\$1,826,724	\$1,196,182	\$1,013,594

Owner's Contingency Summary

BRR No.	Company	Funds From Cost Code	Amount	Funds to Cost Code	Transfer Description
BRR#3	HMFH Architects, Inc.	Owner's Contingency	\$50,850.00	A&E - Construction Contract Documents	Additional Services - HMFH Mechanical Change
BRR#3	Construction Risk Partners	Owner's Contingency	\$580,041.00	Owner's Insurance	Owner's Insurance Coverage - Builders Risk & Terrorism
BRR#3	HMFH Architects, Inc.	Owner's Contingency	\$27,500.00	A&E - Construction Contract Administration	Additional Services - PV Additional Support - CA Services
BRR#3	HMFH Architects, Inc.	Owner's Contingency	\$5,500.00	A&E - Construction Contract Documents	Additional Services - PV Additional Support - CD Services
BRR#3	Consigli Construction Company	Owner's Contingency	\$179,120.00	Swing-Space/Modulars	Parmenter Construction Overage
BRR#3	Bryant Associates	Owner's Contingency	\$11,900.00	A&E - Traffic Studies	Additional Services - Traffic Signal Design CA
BRR#3	Bryant Associates	Owner's Contingency	\$13,750.00	A&E - Construction Contract Administration	Additional Services - Traffic Signal Design
BRR#3	Samiot Consultants, Inc.	Owner's Contingency	\$63,130.00	A&E - Site Survey	Additional Services - Site Survey & MWRA/ConCom/Conservation Request
BRR#3	HMFH Architects, Inc.	Owner's Contingency	\$29,370.00	A&E - Construction Contract Documents	Additional Services - Virus Mitigation Addtl. Engineering
BBR#4	Cabot Risk Strategies, LLC	Owner's Contingency	\$37,379.00	Owner's Insurance	Parmenter Insurance Overage - General Liability & Builders Risk
BBR#4	McPhail Associated	Owner's Contingency	\$39,158.70	A&E - Geotech & Geotech Environment	Additional Services - McPhail Geotech & Geoenvironmental
BBR#4	Samiot Consultants, Inc.	Owner's Contingency	\$2,475.00	A&E - Site Survey	Additional Services - Site Survey related to Arlington DPW Project
BBR#4	Samiot Consultants, Inc.	Owner's Contingency	\$12,485.00	A&E - Construction Contract Administration	Additional Services - CA related to Arlington DPW Project
BBR#4	Samiot Consultants, Inc.	Owner's Contingency	\$8,690.00	A&E - Site Survey	Additional Services - Eversource Design Changes
BRR#5	BALA Consulting Engineers, Inc.	Owner's Contingency	\$21,593.00	A&E - Construction Contract Documents	Additional Services - Eversource & Ameresco Design Changes
BRR#5	Town of Arlington - Custodial	Owner's Contingency	\$50,000.00	Other Project Costs	AHS Custodial Overtime
BRR#5	Construction Risk Partners	Owner's Contingency	\$7,185.00	Owner's Insurance	Builders Risk - Contents Coverage
BRR#5	BALA Consulting Engineers, Inc.	Owner's Contingency	\$2,750.00	A&E - Construction Contract Documents	Additional Services - BALA Library Changes
BRR#5	TBD	Owner's Contingency	\$78,133.25	Other Project Costs	Upcoming Phased Moving Costs
BRR#5	TBD	Owner's Contingency	\$21,866.75	Other Project Costs	Temp Library/Café Move
Future BRR#6	Mosesian Center for the Arts	Owner's Contingency	\$17,150.00	Other Project Costs	Spring Musical Venue Rental
Total Owner's Contingency Spent			\$1,260,026.70		
Owner's Contingency Budget			\$2,769,807.00		
Remaining			\$1,509,780.30		

Other Budget Transfers

BRR No.	Company	Funds From Cost Code	Amount	Funds to Cost Code	Transfer Description
BRR #1	HMFH Architects, Inc.	Environmental & Site	\$49,100.00	A&E - Feasibility Study	Additional Services - Revisions to Sports Fields & New Toilet Facility
BRR #1	Universal Environmental Consultants	A&E - Feasibility Study	\$210,020.00	Environmental & Site	Environmental & Site Subconsultant Procurement Overage
BRR #2	Skanska USA Building	OPM - Feasibility Study	\$7,120.00	Other	OPM Contract Savings Transfer
BRR #2	FSA BRR #2	Other	\$50,000.00	Environmental & Site	Environmental & Site Subconsultant Procurement Overage
BRR #2	FSA BRR #2	A&E - Feasibility Study	\$770.00	Environmental & Site	Environmental & Site Subconsultant Procurement Overage
BRR #2	FSA BRR #2	A&E - Feasibility Study	\$2,728.00	Other	A&E Feasibility Contract Savings Transfer
BRR #3	Consigli Construction Company	Pre-Construction Services	\$194,492.20	Swing-Space/Modulars	Parmenter Construction Overage
BRR #3	HMFH Architects, Inc.	A&E - Printing (Over Minimum)	\$40,000.00	A&E - Other Basic Services	Additional Services - McPhail Geotech & Geoenvironmental
BBR#4	McPhail Associated	A&E - Other Reimbursable Costs	\$372,850.00	A&E - Geotech & Geotech Environment	Additional Services - McPhail Geotech & Geoenvironmental
BBR#4	Bryant Associates	A&E - Wetlands	\$8,910.00	A&E - Traffic Studies	Additional Services - Traffic Study - TOA Transp. Advisory Committee Request
BRR#5	Renaissance Alliance Insurance Services	Other Project Costs	\$1,219.92	Owner's Insurance	Parmenter School General Liability Audit Additional Premium
BRR#5	HMFH Architects, Inc.	A&E - Other Basic Services	\$219.43	A&E - Other Reimbursable Costs	Phase 1 FF&E Procurement Advertisement
Future BRR#6	BALA	Legal Fees	\$6,842.00	A&E - Construction Contract Documents	BALA Addt. Services #6 - Temp Kitch Off Equip
Future BRR#6	BALA	Legal Fees	\$10,450.00	A&E - Construction Contract Documents	BALA Addt. Services #7 - Change to natural gas for temp boiler
Total "Other" Transfers			\$954,721.55		

CR #*	Change Doc	Description	CR Opened	CR Issued	Pricing Status	CR Status	CR Amount Submitted	CR Amount Approved	Estimated Value	Date District Approval	MSBA Category	Owner CO No.	Skanska Response	HMFH Response	Status Comments
63.1	ASI 024	Various Structural Steel Revisions - Phase 1,2,3 - Concrete only		11/30/2021	Submitted	Open	\$86,693						1/9	1/7	
112.1	ASI 037	Phase 2 and 3 - Concrete assoicated with the steel revision	11/22/2021	3/7/2022	Submitted	Open	\$6,483					12			
150	ASI 084	Revised diffuser layout & smoke damper deletion	6/7/2021	3/8/2022	Submitted	Open	\$440								
178	ASI 094	Terrazzo Patterns L1 & L2	7/6/2021	1/25/2022	Submitted	Open	(\$2,026)								
179	CCD 025	Electrical Connections to Irrigation Systems	7/7/2021		Outstanding	Open			\$8,681						
201	ASI 099	Interior Elevations Chorus Room, Production Lab, Band	7/26/2021		Outstanding	Open			(\$1,413)						
203	ASI 121	Partition type changes at triangle chases Part B		11/15/2021	Submitted	Open	\$38,749							11/28	
209	RFI 346.1	Utilize Existing Water Pipe for Temp Service in Fusco	8/4/2021		Outstanding	Open			(\$1,000)						
220	RFI 415	Prep Steel for Intumescent Paint - eeA/e1.6-e2.2_T&M_EST	8/13/2021		Outstanding	Open			\$2,604						
225	RFI 475	Wood Shop Shaft & Casework Changes_Bldg.D_EST	8/19/2021		Outstanding	Open			\$4,055						
230	ASI 135	Additional Information Aud. Light PC34ATRD, RB16T, RB17T, RB17TRD_EST	8/20/2021		Outstanding	Open			\$21,703						
234	ASI 134	Structural Steel & Fndtn Rebar Revs_Bldg. B_EST	8/26/2021		Outstanding	Open			\$34,183						
237	ASI 142	Revisions to Locating Dims for Items on Exterior Elevation 6/A4.3.9 - Bldg. E_EST	8/31/2021	3/9/2022	Submitted	Open	\$817		\$829			12			
242	CCD-029/ ASI	Final Room Numbers/Room Revisions	9/14/2021		Outstanding	Open			\$54,258						
243R1	ASI 144	Provisions for utilizing perm heat via temp power services Ph 1 for 2 months	9/23/2021	1/27/2022	Submitted	Open	\$83,644					12			
246	CCD 030	ASI-157 - Room 434 DLab Additional Ceiling/Light Fixture	9/27/2021		Outstanding	Open			\$13,022						
250	ASI 152	Various Slab Edge Depression Revs & Steel Revs_Ph 2 & 3	10/1/2021		Outstanding	Open			\$2,712						
254	ASI 146	Revs to Bldg B L1 Electric Rms & Mech Rms_EST	9/29/2021		Outstanding	Open			\$17,802						
256	ASI 158	Steel Revs & Glass Railing Support Revs - Bldg. B&C_EST	10/5/2021		Outstanding	Open			\$14,548						
257		DFH changes in Returned SUB PH1, 2-3	10/7/2021		Outstanding	Open			\$7,020						
261	ASI 154	Various Revs to Bldg A, B, C, E Foundations & Slab depressions	10/8/2021	2/28/2022	Submitted	Open	\$100,800								
262	RFI 506	Stair 3 Temporary Egress Routing_EST	10/25/2021		Outstanding	Open			\$30,317						
267	ASI 164	Various Steel & Slab Edge Revs (Bldg. B & C)	10/19/2021		Outstanding	Open			\$9,474						
268	CCD 032	Auditorium Glass Rails_EST	10/19/2021		Outstanding	Open			\$27,159						
270	ASI 166	Roof Walkway Pad Final Layout_EST		11/29/2021	Submitted	Open	\$1,563						12/2	11/30	
272	CCD 33	Relocate Electrical Recept. to Face of Base Cabinet at Science CRs ADA Sink	10/22/2021		Outstanding	Open			\$13,022						
275		Rework GWB and sills for structural glazing	10/27/2021		Outstanding	Open			\$2,712						
277	RFI 548	F&I Added Electrical Jockey Pump/Controller	11/1/2021	3/9/2022	Submitted	Open	\$2,674		\$2,873			12			
279	CCD 035	Provide EV Charging Stations	11/2/2021		Outstanding	Open			\$101,260						
282	n/a	Additional skim coat in bathrooms due to tile elevation discrepancy - Ph 1		1/3/2022	Submitted	Open	\$15,388								
296	ASI 177	Various Revisions Steel & Concrete - Ph. 2/3_EST	12/1/2021		Outstanding	Open			\$14,684						
299		WJGEI Telecom - F&I Security Bollards_EST	12/1/2021	1/25/2022	submitted	Open	\$11,566								
302		CW Steel Support Angles at Doors_EST	12/7/2021		Outstanding	Open			\$4,400						
306	ASI 184	Guidance Suite RCP Coordination Adjustments (PH 2	12/13/2021		Outstanding	Open									
307	ASI 185	Eliminate Security PoE Switch from Electrical Scope_EST	12/13/2021		Outstanding	Open									
309		Extend Irrigation Line past Concrete Sidewalk_T	12/14/2021		Outstanding	Open			\$2,107						
311	RFI 511	RFI-511 - Bldg E Practice Rooms Outlets in Conflict w. Mirrors	12/17/2021		Outstanding	Open			\$7,596						
312	ASI 182	ASI-182 - Bldg. E Exterior Site Bench Layout Dimensions_Ph. 1_EST	12/20/21		Outstanding	Open									
315	CCD 36	CCD-036 - FUSCO Temp Library Revisions_EST	12/21/2021		Outstanding	Open			\$16,189						
318	ASI 189	ASI-189 - Revs to Steel & Concrete Slab Dims_Bldg. A, B, C_EST	12/23/2021		Outstanding	Open			\$5,076						
319	ASI 188	ASI-188 - Mech Duct and Pipe Valve Revs_Bld A & B_EST	12/23/2021		Outstanding	Open			\$4,340						
321	n/a	Furnish and Install 6" Base at Casework & Light	1/6/2022	1/6/2022	Submitted	Open	\$9,611								
323.1	RFI 582	RFI-582 - Electric Boiler Emergency Disconnect Switch (Phase 2 - Building B)	1/5/2022	3/10/2022	Submitted	Open	\$3,713			3/1/2022					
324	ASI 194	ASI-194 - Revisions to PC20 Fixture Locations & Qtys - Ph. 1_EST	1/5/2022		Outstanding	Open									
325	ASI 193	ASI-193 - Misc. Revisions to Steel at Roof Bldg. B_EST	1/5/2022		Outstanding	Open			(\$1,623)						
326	ASI 195	ASI-195 - 4th Floor Beam Penetration_Bldg. B_EST	1/5/2022		Outstanding	Open			\$1,036						
327	ASI 192	ASI-192 - Clarification to C4A Baffles - Ph. 1_T&M_EST	1/11/2022		Outstanding	Open			\$5,426						
328	ASI 198	ASI-198 - Grading revisions at Part E west exterior courtyard and adjacent sidewalk_E	1/11/2022		Outstanding	Open			\$868						
329		Conex Boxes Ed Burns Skating Rink & Drama Set Materials_EST	1/13/2022		Outstanding	Open			\$5,425						
330	RFI 592	RFI-592.1 - 592 - Dust Collector EST	1/18/2022		Outstanding	Open			\$20,474						
331	ASI 199	ASI-199 - Stair 10 Railing_EST	1/18/2022		Outstanding	Open									
332	ASI 197	ASI-197 - Revisions to Band & Chorus Rooms Baffle & PC16 fixtures	1/20/2022		Outstanding	Open			\$6,511						
333		Elevator Operator for Owner Moves_EST	1/21/2022		Outstanding	Open			\$6,511						
334		RFI-XXXX - Additional Electrical for Ice Makers Ph. 1_T&M_EST	1/24/2022		Outstanding	Open			\$7,596						
335	ASI 204	ASI-204 - Additional of 14B Low Walls at Art Classroom Sinks - Bldg. E	1/24/2022		Outstanding	Open			\$10,026						
336	RFI 593	RFI-593 - Homosote TB Attachment & Finish Revisions - Ph.1	1/27/2022		Outstanding	Open			\$10,851						
337	ASI 98.3	ASI-098.3 - Paint Color for Access Panels & Counter Brackets - Phase 1	1/28/2022		Outstanding	Open			\$10,851						
338	ASI 206	ASI-206 - Provide Separate Metering for EV Charger Panel - Phase 1	1/28/2022		Outstanding	Open			\$5,721						
339	RFI 594.1	RFI-594.1 - F&I Missing Top Cat AV Power_Bldg. D & E	1/31/2022		Outstanding	Open			\$5,383						
340	ASI 207	ASI-207 - Revision to Foundation Plan (BLDG A, B, D/E Ph 2) (PH 2 + 3)	1/31/2022		Outstanding	Open									
341	ASI 208	Revisionto dunnage at Bldg D Phase 2	2/3/2022		Outstanding	Open			\$6,428						
342	RFI 455.2	RFI-455.2 - Roof Drain Changes_EST	2/3/2022		Outstanding	Open									
343	ASI 95.1	ASI 095.1 - Revision to Temp LABBB Quiet Room (Downs BLDG;PH 1)	2/7/2022		Outstanding	Open			\$4,341						
344	RFI 601	RFI-601 - Branch Box BS-1-E-3 Missing Electrical Circuitry - Bldg.	2/8/2022		Outstanding	Open									
345	CCD 39	Change floor finish material in Toilet Entry Alcove C2-09	2/8/2022		Outstanding	Open									
346	ASI 209	Ph1 Mech zone group definitions	2/9/2022		Outstanding	Open									
347	ASI 156	Control revisions	2/11/2022		Outstanding	Open									
348	ASI 201	Additional info outlet hours of operation	2/15/2022		Outstanding	Open									

CR #*	Change Doc	Description	CR Opened	CR Issued	Pricing Status	CR Status	CR Amount Submitted	CR Amount Approved	Estimated Value	Date District Approval	MSBA Category	Owner CO No.	Skanska Response	HMFH Response	Status Comments
349	ASI 142.1	Revision to device mounting on Ext. Elevations A4.3.9 Ph1/3	2/15/2022		Outstanding	Open									
350	ASI 148.1	Revision to dunnage at Bldg C Roof	2/15/2022		Outstanding	Open									
351	ASI 210	Additional two signs per Fire Dept	2/16/2022		Outstanding	Open									
352	asi 164.1	Chase size reduction in Bldg B Rm 310, 410, 510 Ph 2	2/16/2022		Outstanding	Open									
353	ASI 211	Rev/Added Dim at loading dock & various foundation revisions Ph 2	2/16/2022		Outstanding	Open									
354	ASI 212	Chase size reduction in Bldg B Rm 310, 410, 510 Ph 2	2/22/2022		Outstanding	Open									
355	ASI 177.2	Various rev to steel & concrete - Ph2	2/22/2022		Outstanding	Open									
356	ASI 215	Revision to ductowrk at plotter room & storage room Ph 1	2/28/2022		Outstanding	Open									
357	ASI 216	Dim revisions to slab edge pan Bldg B & C	2/28/2022		Outstanding	Open									
358	ASI 217	Rev to exterior wall tag at Stair 4 Bldg B	3/2/2022		Outstanding	Open			\$10,852						
359	ASI 218	Temp disconnect of duress alarm button in Rm. 532A	3/2/2022		Outstanding	Open									
363	RFI 614	Change to explosion proof PA speaker in Spray Booth		3/10/2022	Submitted	Open	\$2,047								
							\$371,045	\$928,514	\$541,678						

*CR 1-60 are incorporated into the GMP.

Projected CR's:	\$912,724
CR's Approved:	\$928,514
Total Approved/Projected CR's	\$1,841,237.2
Construction Contingency (from 3011)	\$7,075,741.0
Remaining Cont Less Approved COs	\$6,147,227.4
Remaining Cont Less Approved & Projected COs	\$5,234,503.8
Contingency Burn Based on Physical Progress Calculation	
Percentage Complete (Physical Progress)	39.9%
Percentage of Total Approved/Projected CR to Const Cont Amount	26.0%
Allotted Const Cont for Current Progress	\$2,823,221
Remaining Allotted (after Approved/Projected)	\$981,983

By Owner	\$294,877
By 3rd Party	\$16,190



Arlington High School Project
GMP Contingency Log

Budget:	GMP Cont.	Owner GMP Cont
	\$5,817,419	\$1,150,000

Contingency Letter (CT) #	Document	Description	Amount	GMP Cont. Amount	Owner GMP Cont. Amount	Date Issued	Approved Amount	Date Approved	BIC/Status	Comments
CT004	n/a	Final Clean for EBP 3	\$11,500	\$11,500		3/22/2021	\$11,500	3/23/2021	Closed	
CT006	n/a	EBP3 - Plywood filler at guidance office demising walls	\$350	\$350		3/22/2021	\$350	3/23/2021	Closed	
CT010	n/a	EBP3 - F/I blinds due to existing missing	\$750	\$750		3/22/2021	\$750	3/23/2021	Closed	
CT014	n/a	EBP2 - Hydroseed loam stockpile	\$2,730	\$2,730		2/15/2021	\$2,730	2/18/2021	Closed	
CT015	n/a	EBP3 - Misc. electrical T&M work in Swing Spaces for work associated with RFI 17, CCD 004 & CCD 009	\$2,000	\$2,000		2/10/2021	\$2,000	2/18/2021	Closed	
CT017A	PR 1/CCD8	Change linoleum tile from Marmoleum MCT to Marmoleum Modular Phase 1	\$214,346		\$214,346	2/24/2021	\$214,346	2/18/2021	Closed	
CT017B	PR 1/CCD8	Change linoleum tile from Marmoleum MCT to Marmoleum Modular Phase 2 & 3	\$298,114		\$298,114	2/21/2021	\$298,114	2/18/2021	Closed	
CT018C	PR 2	Change Corr C1-06 flooring from AFC-1 to Res Tile - Modulat Tile	\$840		\$840	3/17/2021	\$840	3/17/2021	Closed	
CT019A	PR 3/CCD10	Add CT Wainscot to Stairs 2 and 3 Phase 1	\$190,500		\$190,500	2/23/2021	\$190,500	2/24/2021	Closed	
CT019B	PR 3/CCD10	Add CT wainscot to Stairs 1 and 4 Phase 2	\$97,166		\$97,166	2/23/2021	\$97,166	2/24/2021	Closed	
CT019C	PR 3/CCD10	Add CT wainscot to Stair 8 Phase 3	\$33,911		\$33,911	2/23/2021	\$33,911	2/24/2021	Closed	
CT020A	PR 5/CCD12	Change toilet room flooring to porcelain tile Phase 1	\$70,681		\$70,681	2/25/2021	\$70,681	2/26/2021	Closed	
CT020B	PR 5/CCD12	Change toilet room flooring to porcelain tile Phase 2 and 3	\$176,896		\$176,896	2/25/2021	\$176,896	2/26/2021	Closed	
CT021	PR 4/CCD9	Raised CT Wainscot height in staff toilets Rms Phases 1-3	\$20,738		\$20,738	2/22/2021	\$20,738	2/24/2021	Closed	
CT022		Quick ship door frams Bldg D L5 & L4. To cover overage in HT-15. Total Cost is \$5,837	\$837	\$837		3/21/2021	\$837	3/23/2021	Closed	
CT025		F&I Temp doors and hardware for Mech/Elec Rooms - Phase 1	\$5,891	\$5,891		6/7/2021	\$5,891	6/7/2021	Closed	total is \$7,315.7; \$1,425 funding from Hold 8-006
CT026	PR-006	Provide sink in Downs Classroom 336 for temporary daycare	\$16,815		\$16,815	6/2/2021	\$16,815	6/3/2021	Closed	CR124
CT027	ASI 064	Additional caseworks and revisions to accommodate p-trap.- Rms 221, 226, 219 and 220	\$12,255		\$12,255	6/8/2021	\$12,255	6/25/2021	Closed	CR 127
CT028	ASI 051 & .1 & .2	Add Adjustable Shelves to Tech Storage Cabinets	\$7,930		\$7,930	6/8/2021	\$7,930	6/21/2021	Closed	CR 128
CT030		Locker sloped tops	\$22,985	\$22,985		6/17/2021	\$22,985	6/18/2021	Closed	CR 132
CT031		Homosote tackboards in classrooms	\$23,706	\$23,706		2/22/2022			Skanska/HMFH	
CT032		Swing Space - Spring early abatement April 2021	\$22,000	\$22,000						
CT033	n/a	Reconcile Phase 1 & Establish Phase 2 Surveying Budget	\$362,496	\$362,496		8/18/2021	\$362,496		Closed	
CT034	RFI 187	Spray acoustic insulation at elliptical lightwells - not bought out with trade	\$32,000	\$32,000		10/7/2021	\$32,000	10/14/2021	Closed	
CT035		Patch/repair water damage GWB Bldg D&E - rain intrusion priore to windows being installed over course of construction	\$16,252	\$16,252		12/15/2022	\$16,252	1/10/2022	Closed	
CT036	n/a	Quick ship and replace frames. Ph 1 Ensemble Rms, swing spaces	\$8,480	\$8,480		10/7/2021	\$8,480	10/14/2021	Closed	
CT037	n/a	K&K Ceiling go back work at D3 and D4 exterior walls	\$1,486	\$1,486		10/7/2021	\$1,486	10/14/2021	Closed	
CT039		Deletion of projection screen from NEIS scope which was included in Elec. Trade bid.	(\$18,230)	(\$18,230)		10/20/2021	(\$18,230)	11/17/2021	Closed	
CT040		4 storage continers for temp storage of contents for Summer Work. (CR148)	\$4,811		\$4,811	11/9/2021	\$4,811	11/15/2021	Closed	
CT041		RFI-389 - Reframe Electrical Chase due to Duct Conflict - 3rd Flr. Bldg. E (CR172)	\$463	\$463		11/9/2021	\$463	11/15/2021	Closed	
CT042		Revised locations of sanitary napkin dispensers - Bldg D 4th & 5th Fl. (CR176)	\$1,991	\$1,991		11/9/2021	\$1,991	11/15/2021	Closed	
CT043		Furnish New mobile hand sinks noted existing	\$8,599	\$8,599		12/6/2021				

Double check \$1,651,289 \$506,286 \$1,145,003 \$1,596,984 \$54,305

Summary:

GMP Contingency	
Budget	\$5,817,419
Potential	\$54,305
Approved	\$451,981
Balance Remaining after potential and approved	
Balance Remaining after approved	

Owner GMP Contingency	
Budget	\$1,150,000
Potential	\$0
Approved	\$1,145,003
Balance Remaining after potential and approved	
Balance Remaining after approved	

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Arlington High School Project
Allowance Log

							CCC Cost Code	24-001	24-002	24-003	24-006	24-007	24-008	24-011	24-013	24-014	24-015-021	24-032	24-033	24-034	24-035	24-036	24-037
							Allow #	001	002	003	006	007	008	011	013	014	015	032	033	034	035	036	037
Allow Letter #	Description	Allow #	CCC Cost Code	Amount	Date Issued	Date Approved by Owner	Total Balance Remaining	Temp electric consumption in GR	Temp heating systems and rentals	Temp heating fuel for construction	Project ID signage	Police detail	Humidity control	Temp IT/DPW Project IT Coordination	Acceleration/S elective Over Time	Covid GR Impact Costs	Phasing Contingency	Create clean corridor	Water treatment - allowance	Foundation and obstruction	Sewer by-pass - phase 2	Repair engineer barrier at	Street sweeping - phase 2-3
.	Budget						6,115,500	200,000	125,000	125,000	15,000	22,500	200,000	300,000	700,000	600,000	650,000	100,000	100,000	75,000	50,000	50,000	90,000
.	Potential & Tranferred to date						2,157,060	171,961	63,683	110,041	721	0	10,000	25,755	470,937	270,983	266,156	0	0	0	0	0	0
.	0 Balance Remaining						3,958,440	28,039	61,317	14,959	14,279	22,500	190,000	274,245	229,063	329,017	383,844	100,000	100,000	75,000	50,000	50,000	90,000
				\$2,157,060																			
Pre-GMP	Project ID signage	006		\$721	Pre-GMP	Pre-GMP					721												
AT004	Eversource Invoice for Temp Service	001	24-001	\$33,332	11/30/2020	3/4/2021		33,332															
AT005	Trailer Temp power usage - Sept 2020 - Dec 2	001	24-001	\$15,751	1/4/2021	3/4/2021		15,751															
AT007	Eversource Invoice for Temp Service for Trail	001	24-001	\$17,885	11/16/2020	3/4/2021		17,885															
AT009	Temporary heating systems and rentals	002	24-002	\$26,290	1/12/2021	2/26/2021			26,290														
AT010	Covid GR Impact Costs	014	24-014	\$6,942	1/12/2021	2/26/2021										6,942							
CR057	Covid GR Impact Costs - Nov 2020 (Taken out of allowance, Consigli cannot re-assign as a AT once approved in their system)	014	24-014	\$6,074	3/23/2021	3/30/2021										6,074							
AT011	Covid GR Impact Costs - Dec 2020	014	24-014	\$4,914	4/29/2021	6/3/2021										4,914							
AT012	Covid GR Impact Costs - Jan 2021	014	24-014	\$7,861	4/29/2021	6/3/2021										7,861							
AT013	Winter Conditions - January 2021	040	24-009	\$22,458	2/15/2021	2/18/2021																	
AT014	Fund Temp Power - January - March '21	001	24-001	\$30,334	6/12/2021	8/5/2021		30,334															
AT016	Temp Heat Equipment Rental and Removal -	002	24-002	\$37,393	6/12/2021	8/5/2021			37,393														
AT017	Assignment of CCC Cost Code	n/a	n/a	n/a	2/15/2021	2/18/2021																	
AT019	Covid GR Impact Costs - Feb 2021	014	24-014	\$7,269	6/2/2021	6/3/2021										7,269							
AT019	Covid GR Impact Costs - Feb 2021	014	24-014	\$7,269	4/29/2021	6/3/2021										7,269							
AT020	Fuel for temp heat - March 2021	003	24-003	\$110,041	4/13/2021	4/29/2021				110,041													
AT021	Winter Conditions - Feb and March 2021	040	24-009	\$36,162	4/13/2021	4/29/2021																	
AT022	Covid GR Impact Costs - March 2021	014	24-014	\$16,555	8/3/2021	8/3/2021										16,555							
AT023	Premium Time - Feb and March 2021	013	24-013	\$38,241	4/29/2021	4/29/2021									38,241								
AT024	Premium Time - April 2021	013	24-013	\$31,438	6/7/2021	6/25/2021									31,438								
AT025	Covid GR Impact Costs - April 2021	014	24-014	\$20,407	8/3/2021	8/3/2021										20,407							
AT026R	RFI 314 - Primary Service Feeders change - to minimize shutdown for Phase 2	045	24-045	\$73,546	5/25/2021	8/26/2021																	
AT027	Fusco cooling East locations - electrical	015	24-021	49,410	5/6/2021	5/7/2021											49,410						
AT027	Fusco cooling East locations - HVAC	015	24-020	29,104	5/6/2021	5/7/2021											29,104						
AT028	Covid GR Impact Costs - May 2021	014	24-014	\$12,022	7/29/2021	9/22/2021										12,022							
AT029	Fund Temp Power - April 2021	001	24-001	\$24,857	6/12/2021	8/5/2021		24,857															
AT030	ASI 050 - Elec Cost for Rm. 332 power & data rev.	45	24-045	\$2,073	7/20/2021	8/10/2021																	
AT030.1	ASI 050 - Elec Cost for Rm. 332 power & data rev. (credit)	45	24-045	-\$6,678	12/15/2022	1/10/2022																	
AT031	RFI-164 - Emergency Lighting Panel Fuses (Phase 1 & 2)	045	24-045	\$5,868	6/8/2021	6/25/2021																	
AT032	Factory glaze door lites ILO of field install	013	24-013	\$6,197	11/10/2021	11/30/2021									6,197								
TBD	RFI 146 - Change E Lighting panel to fuse	045	24-045	\$6,000	Notice of change issued 2/24/21																		
AT033	Locker material esclation due to COVID-19 Impact	014	24-014	\$44,336	7/20/2021	8/2/2021										44,336							
AT034	Fund Temp Power - May/June 2021	001	24-001	\$24,803	potential			24,803															
AT035	Covid GR Impact Costs - June 2021	014	24-014	\$11,359	9/15/2021	9/16/2021										11,359							
AT036	RFI 330 - Woodshop 227 Transformer relocat	045	24-045	\$4,118	7/20/2021	10/7/2021																	
AT037	Premium time - partial May and June 2021	013	24-013	\$24,639	8/3/2021	8/3/2021									24,639								
AT038	ASI 27 - Ph 2/3 steel changes	042	24-039	\$9,500	10/28/2021	?Jim/Arthur																	
AT039	RFI 190 - Fixed cord drop in Woodshop	045	24-045	\$2,348	7/20/2021	8/10/2021																	
AT040	CCD 14 & RFI 196.1 - Main Elec. Rm layout	045	24-045	\$71,121	7/12/2021	7/13/2021																	
AT041	Leveling existing slab in cafeteria corridor (from floor abatement)	015	24-017	\$33,444	7/14/2021	8/10/2021											33,444						
AT042	Seal slab & replace base at abated floor areas - swing space	015	24-017	\$10,000	potential												10,000						
AT043	Covid GR Impact Costs - July 2021	014	24-014	\$11,821	11/5/2021	11/30/2021										11,821							
AT044	Premium Time - July 2021	013	24-013	\$45,618	9/3/2021	9/16/2021									45,618								
AT045	Temp AVB at Stair 2 Bldg for future connection	015	24-017	\$4,593	9/3/2021	9/16/2021											4,593						
AT046	Rental & labor for Dehumidifiers	0.0018	24-008	\$10,000	potential								10,000										
AT047	Covid GR Impact Costs - August 2021	014	24-014	\$15,673	11/5/2021	11/30/2021										15,673							
AT048	Fund Temp Power - July 2021	001	24-001	\$25,000	potential			25,000															3/14/2022

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Arlington High School Project
Allowance Log

							CCC Cost Code	24-001	24-002	24-003	24-006	24-007	24-008	24-011	24-013	24-014	24-015-021	24-032	24-033	24-034	24-035	24-036	24-037
							Allow #	001	002	003	006	007	008	011	013	014	015	032	033	034	035	036	037
Allow Letter #	Description	Allow #	CCC Cost Code	Amount	Date Issued	Date Approved by Owner	Total Balance Remaining	Temp electric consumption in GR	Temp heating systems and rentals	Temp heating fuel for construction	Project ID signage	Police detail	Humidity control	Temp IT/DPW Project IT Coordination	Acceleration/S elective Over Time	Covid GR Impact Costs	Phasing Contingency	Create clean corridor	Water treatment - allowance	Foundation and obstruction	Sewer by-pass - phase 2	Repair engineer barrier at	Street sweeping - phase 2-3
AT049	Premium Time - Aug 2021	013	24-013	\$51,014	10/12/2021	10/15/2021									51,014								
AT050	Misc patch and repair existing swing space	015	24-015 24-017	\$13,168	10/12/2021	10/15/2021											13,168						
AT051	Avid - fire watch at addtl catwak	043	24-042	\$1,160	potential																		
AT052	Covid GR Impact Costs - Sept 2021	014	24-014	\$21,286	11/5/2021	11/30/2021										21,286							
AT053	Premium Time - Sept 2021	013	24-013	\$61,068	10/28/2021	11/30/2021									61,068								
AT054	Temp Ainfll borrowed lights in Phasing wall C3-13	015	24-015	\$1,800	potential												1,800						
AT055	Premium Time - Oct 2021	013	24-013	\$69,354	12/6/2021	1/31/2022									69,354								
AT056	F&I bike racks to accommodate phasing per Owner	015	24-015	\$10,000	12/6/2021												10,000						
AT057	CCD 24 Fiber coonection to Fusco due to DPW Data Center schedule. CR152	011	24-011	\$24,195	10/5/2021	10/7/2021								24,195									
AT058	ASI 048 Auditorium concrete slab revs and step dim. \$495	Pre-GMP CO	24-025	pre-GMP CO	10/13/2021	10/15/2021																	
AT059	ASI 049 Revisions to window shade	045	24-045	-\$8,739	10/6/2021	11/15/2021																	
AT060	ASI 037 - Various Steel Revisions to Ph 2 and 3. (CR112R1)	042	24-039	\$82,105	10/6/2021	10/7/2021																	
AT061	ASI 083 - Structural Steel Revisons Bldg B (CR165)	042	24-039	\$10,715	10/6/2021	10/7/2021																	
AT062	CCD-019 & CR158 - RFI-381 Dlab Fixture Revs. (CR158)	045	24-045	\$15,745	10/7/2021	10/12/2021																	
AT063	CCD 19 - Light fixture revision for Buildings and Site	045	24-045	\$45,171	10/7/2021	10/12/2021																	
AT064	Covid GR Impact Costs - October 2021	014	24-014	\$25,595	1/14/2022	1/31/2022										25,595							
AT065	Premium Time - Nov 2021	013	24-013	\$74,714	1/14/2022	1/31/2022									74,714								
AT066	Air freight resilient flooring for Ph 1. Forbo had delay in manufacturing due to COVID	014	24-014	\$25,525	11/8/2021	1/4/2022										25,525							
AT067	CCD 19 - Panel production supply change impacts - DH2D and MHMOS3E	045	24-045	\$50,222	11/30/2021	1/31/2022																	
AT068	ASI 116 - Electrical connection to kitchens (CR190)	045	24-045	\$3,816	11/3/2022	1/31/2022																	
AT069	Added DAS at Ceiling of 5th Floor Bldg. D (CR182)	045	24-045	\$5,699	11/9/2021	11/12/2021																	
AT070	Change (3) P9 Sinks to be drop ins as they are to be set in plastic lam countertops (CR208)	015	24-015	\$872	11/9/2021	11/12/2021											872						
AT071	Ameresco PV circuit breaker assembly. (CR192)	045	24-045	\$12,118	11/9/2021	11/12/2021																	
AT072	Covid GR Impact Costs - November 2021	014	24-014	\$20,617	1/14/2022	1/31/2022										20,617							
AT073	IT Service for Eversource Shutdown 11/18/21- Vault Exploratory CR195	011 '015	24-011 24-021	\$16,329	11/15/2021	11/29/2021								1,560			14,769						
AT074	ASI 061 and 61.1 - (CR133) Various steel changes in PH 2 and 3	042	24-039	\$50,109	11/28/2021	12/2/2021																	
AT075	RFI 482 - Glycol Branch Bldg E Elec.	045	24-045	\$1,890	11/29/2021	12/2/2021																	
AT076	Premium Time - Dec 2021 & Jan 2022	013	24-013	\$68,654	2/16/2022										68,654								
AT078	ASI 115 - Power connections for range hoods - Bldgs A, B, &C	045	24-045	\$2,007	12/2/2021	12/2/2021																	

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Arlington High School Project
Allowance Log

					24-040	24-041	24-009	OAL TBD	24-039	24-042	24-044	24-045	24-046	24-043	24-047
					038	039	040	041	042	043	044	045	046	047	048
Allow Letter #	Description	Allow #	CCC Cost Code	Amount	Temp electric consumption - additional	Temp heating fuel for construction	Winter conditions	Additional concrete	Additional steel	Additional misc metals	Additional kichen equipment	Additional electrical	Hoisting not assigned to sub	Pedestrian protection and access	Vapor migitagion fans if
.					250,000	165,000	150,000	100,000	300,000	200,000	103,000	750,000	300,000	220,000	175,000
.				Potential	0	0	58,620	0	152,103	123,387	0	432,713	0	0	0
.				0	250,000	165,000	91,380	100,000	147,897	76,613	103,000	317,287	300,000	220,000	175,000
				\$2,157,060											
Pre-GMP	Project ID signage	006		\$721											
AT004	Eversource Invoice for Temp Service	001	24-001	\$33,332											
AT005	Trailer Temp power usage - Sept 2020 - Dec 2020	001	24-001	\$15,751											
AT007	Eversource Invoice for Temp Service for Trailer	001	24-001	\$17,885											
AT009	Temporary heating systems and rentals	002	24-002	\$26,290											
AT010	Covid GR Impact Costs	014	24-014	\$6,942											
CR057	Covid GR Impact Costs - Nov 2020 (Taken out of allowance, Consigli cannot re-assign as a AT once approved in their system)	014	24-014	\$6,074											
AT011	Covid GR Impact Costs - Dec 2020	014	24-014	\$4,914											
AT012	Covid GR Impact Costs - Jan 2021	014	24-014	\$7,861											
AT013	Winter Conditions - January 2021	040	24-009	\$22,458			22,458								
AT014	Fund Temp Power - January - March '21	001	24-001	\$30,334											
AT016	Temp Heat Equipment Rental and Removal -	002	24-002	\$37,393											
AT017	Assignment of CCC Cost Code	n/a	n/a	n/a	x	x				x	x	x	x	x	x
AT019	Covid GR Impact Costs - Feb 2021	014	24-014	\$7,269											
AT019	Covid GR Impact Costs - Feb 2021	014	24-014	\$7,269											
AT020	Fuel for temp heat - March 2021	003	24-003	\$110,041											
AT021	Winter Conditions - Feb and March 2021	040	24-009	\$36,162			36,162								
AT022	Covid GR Impact Costs - March 2021	014	24-014	\$16,555											
AT023	Premium Time - Feb and March 2021	013	24-013	\$38,241											
AT024	Premium Time - April 2021	013	24-013	\$31,438											
AT025	Covid GR Impact Costs - April 2021	014	24-014	\$20,407											
AT026R	RFI 314 - Primary Service Feeders change - to minimize shutdown for Phase 2	045	24-045	\$73,546								73,546			
AT027	Fusco cooling East locations - electrical	015	24-021	49,410											
AT027	Fusco cooling East locations - HVAC	015	24-020	29,104											
AT028	Covid GR Impact Costs - May 2021	014	24-014	\$12,022											
AT029	Fund Temp Power - April 2021	001	24-001	\$24,857											
AT030	ASI 050 - Elec Cost for Rm. 332 power & data rev.	45	24-045	\$2,073								2,073			
AT030.1	ASI 050 - Elec Cost for Rm. 332 power & data rev. (credit)	45	24-045	-\$6,678								(6,678)			
AT031	RFI-164 - Emergency Lighting Panel Fuses (Phase 1 & 2)	045	24-045	\$5,868								5,868			
AT032	Factory glaze door lites ILO of field install	013	24-013	\$6,197											
TBD	RFI 146 - Change E Lighting panel to fuse	045	24-045	\$6,000								6,000			
AT033	Locker material esclation due to COVID-19 Impact	014	24-014	\$44,336											
AT034	Fund Temp Power - May/June 2021	001	24-001	\$24,803											
AT035	Covid GR Impact Costs - June 2021	014	24-014	\$11,359											
AT036	RFI 330 - Woodshop 227 Transformer relocat	045	24-045	\$4,118								4,118			
AT037	Premium time - partial May and June 2021	013	24-013	\$24,639											
AT038	ASI 27 - Ph 2/3 steel changes	042	24-039	\$9,500					9,500						
AT039	RFI 190 - Fixed cord drop in Woodshop	045	24-045	\$2,348								2,348			
AT040	CCD 14 & RFI 196.1 - Main Elec. Rm layout	045	24-045	\$71,121								71,121			
AT041	Leveling existing slab in cafeteria corridor (from floor abatement)	015	24-017	\$33,444											
AT042	Seal slab & replace base at abated floor areas - swing space	015	24-017	\$10,000											
AT043	Covid GR Impact Costs - July 2021	014	24-014	\$11,821											
AT044	Premium Time - July 2021	013	24-013	\$45,618											
AT045	Temp AVB at Stair 2 Bldg for future connection	015	24-017	\$4,593											
AT046	Rental & labor for Dehumidifers	0.0018	24-008	\$10,000											
AT047	Covid GR Impact Costs - August 2021	014	24-014	\$15,673											
AT048	Fund Temp Power - July 2021	001	24-001	\$25,000											

SKANSKA

Arlington High School Project
Allowance Log

Allow Letter #	Description	Allow #	CCC Cost Code	Amount	24-040	24-041	24-009	OAL TBD	24-039	24-042	24-044	24-045	24-046	24-043	24-047
					038	039	040	041	042	043	044	045	046	047	048
					Temp electric consumption - additional	Temp heating fuel for construction	Winter conditions	Additional concrete	Additional steel	Additional misc metals	Additional kichen equipment	Additional electrical	Hoisting not assigned to sub	Pedestrian protection and access	Vapor migitagion fans if
AT049	Premium Time - Aug 2021	013	24-013	\$51,014											
AT050	Misc patch and repair existing swing space	015	24-015	\$13,168											
			24-017												
AT051	Avid - fire watch at addtl catwak	043	24-042	\$1,160						1,160					
AT052	Covid GR Impact Costs - Sept 2021	014	24-014	\$21,286											
AT053	Premium Time - Sept 2021	013	24-013	\$61,068											
AT054	Temp Ainfll borrowed lights in Phasing wall C3-13	015	24-015	\$1,800											
AT055	Premium Time - Oct 2021	013	24-013	\$69,354											
AT056	F&I bike racks to accommodate phasing per Owner	015	24-015	\$10,000											
AT057	CCD 24 Fiber coonection to Fusco due to DPW Data Center schedule. CR152	011	24-011	\$24,195											
AT058	ASI 048 Auditorium concrete slab revs and step dim. \$495	Pre-GMP CO	24-025	pre-GMP CO											
AT059	ASI 049 Revisions to window shade	045	24-045	-\$8,739								(8,739)			
AT060	ASI 037 - Various Steel Revisions to Ph 2 and 3. (CR112R1)	042	24-039	\$82,105					82,105						
AT061	ASI 083 - Structural Steel Revisons Bldg B (CR165)	042	24-039	\$10,715					10,715						
AT062	CCD-019 & CR158 - RFI-381 Dlab Fixture Revs. (CR158)	045	24-045	\$15,745								15,745			
AT063	CCD 19 - Light fixture revision for Buildings and Site	045	24-045	\$45,171								45,171			
AT064	Covid GR Impact Costs - October 2021	014	24-014	\$25,595											
AT065	Premium Time - Nov 2021	013	24-013	\$74,714											
AT066	Air freight resiliant flooring for Ph 1. Forbo had delay in manufacturing due to COVID	014	24-014	\$25,525											
AT067	CCD 19 - Panel production supply change impacts - DH2D and MHMOS3E	045	24-045	\$50,222								50,222			
AT068	ASI 116 - Electrical connection to kitchens (CR190)	045	24-045	\$3,816								3,816			
AT069	Added DAS at Ceiling of 5th Floor Bldg. D (CR182)	045	24-045	\$5,699								5,699			
AT070	Change (3) P9 Sinks to be drop ins as they are to be set in plastic lam countertops (CR208)	015	24-015	\$872											
AT071	Ameresco PV circuit breaker assembly. (CR192)	045	24-045	\$12,118								12,118			
AT072	Covid GR Impact Costs - November 2021	014	24-014	\$20,617											
AT073	IT Service for Eversource Shutdown 11/18/21- Vault Exploratory CR195	011 '015	24-011 24-021	\$16,329											
AT074	ASI 061 and 61.1 - (CR133) Various steel changes in PH 2 and 3	042	24-039	\$50,109					50,109						
AT075	RFI 482 - Glycol Branch Bldg E Elec.	045	24-045	\$1,890								1,890			
AT076	Premium Time - Dec 2021 & Jan 2022	013	24-013	\$68,654											
AT078	ASI 115 - Power connections for range hoods - Bldgs A, B, &C	045	24-045	\$2,007								2,007			

							Hold #:	2	3	3	3	3	3	3	1	1	20	1	1	20	1	20	20	20	18	18	18	18	11	11	11	22	22	22	
Hold Letter #	Description	Trans. To Subs:	Hold #	Amount	Date Issued	Date Appr'd by Owner	Total Hold Balance Remaining	HOLD - Temp fence maintenance	HOLD-Trade Support	HOLD-Street Swp & Lab Clean	HOLD-Temp Construction/Co nd	Layout for Demo	HOLD-Shoring/Brac per SE	HOLD-Add Air Monit. W/School	HOLD-Unforeseen Conditions	HOLD-Obs. Rem. @ All SOE	HOLD-Add Grnd Improvements	HOLD-Sum 21 PE Survey	HOLD-Mod. Ex. W. Lot Ret Wall	HOLD-Sow Plowing Ph. 1	HOLD-Snow Plow & Sand	HOLD-BY-PASS for Storm Line	HOLD-6" Grav @ Bolld L7.09	HOLD-Conc DB Encas - RFI-131	HOLD-Baseline Control/Survey	HOLD-Extra PIFs/Rej PIFs	HOLD-50hr Down Time Obstruct	HOLD - Fill Aband Holes W Conc	HOLD - Disp of Pile Cutoff	Hold - Trade Support (EBP4	Hold - Weather Conditions	Hold - Add Rebar MEP Coord	HOLD-Trade Support	HOLD-Insulation Topping Slabs	HOLD-Addl Reb. MEP Coord
double check: Transferred/to be transfer to date							Budget 4,648,925	12,303	110,000	37,125	100,000	50,000	75,000	60,000	60,000	75,000	50,000	25,000	30,000	40,000	90,000	50,000	70,000	56,000	45,000	56,250	90,000	15,000	9,500	30,000	100,000	100,000	15,000	10,000	
Balance Remaining							1,833,935	0	110,000	1,000	100,000	50,000	26,290	60,000	0	17,549	13,474	25,000	3,606	0	13,375	1,345	0	0	45,000	0	0	0	0	0	24,665	100,000	0	9,640	
\$1,833,935							2,814,990	12,303	0	36,125	0	0	48,710	0	60,000	57,451	36,526	0	26,394	40,000	76,625	48,655	70,000	56,000	0	56,250	90,000	15,000	9,500	30,000	100,000	75,335	0	15,000	360
HT 1	Additional exploratory test pits at West Lot retaining wall	Derenzo	2-406	\$589	7/28/20	9/2/20													589																
HT 2	void																																		
HT 3	Baseline Survey	Brennan Surveying	2-006 & 5-128	\$70,000	8/20/20	9/2/20						50,000																							
HT 4	Indoor air quality monitoring		2-009	\$60,000	3/17/21	3/23/21								60,000																					
HT 6	Misc. Framing & Patching	T.J McC. & Color Concept	9-223	\$3,543	9/15/20	10/8/20																													
HT 7	EBP #4 - Plumb & Elec. sleeve	Irvine & Griffin	3-113	\$3,686	9/18/20	10/8/20																											3,686		
HT 8	Repair Orange barrier at West Lot	Derenzo	2-406	\$3,018	10/5/20	10/8/20													3,018																
HT 9	Various Transfer to Gen Requirements	Riggs	various	\$1,324,912	6/12/21	8/10/21			110,000		100,000																						100,000		
HT 10	Temp lockset for C of O	A&A	9-223 & 8-005	\$900	11/11/20	11/20/20																													
HT 11	Furnish electrical sleeves in Bldg E foundations	Griffin	3-113	\$13,965	2/15/21	2/18/21																										13,965			
HT 12	EBP 2 - Install cast iron cleanouts on PVC cleanouts on sewer easement	Derenzo	2-409	\$1,345	3/21/21	3/23/21																1,345													
HT 13	EBP 4 - Bldg E Ph. 2/3 colums - added rebar couplers	Riggs	3-113 3-116	\$16,654	potential																											7,014		9,640	
HT 14	Phase 1 baseline/survey	Brennan Surveying	2-412 2-405 9-232 12-611	\$143,000	3/21/21	3/23/21												25,000							45,000										
HT15	Quick ship door frames Bldg D L5 & L4. Overage covered CT022. Total Cost is \$5,837	Eaton	8-007	\$5,000	3/21/21	3/23/21																													
HT16	Smoke hatch manual releases at stage level. CCD 007. Previous CR082. VOID	VOID - releases no longer needed		VOID	4/8/21	VOID																													
HT16.1	Change smoke hatches at Stage Roof to 5'x8' instead of 5/6" - 12". Change qty to 4 instead of 2.. CCD 007. CR077	Greenwood \$7,054 Colony \$2,154.76		\$9,209	4/28/21	7/13/021																													
HT17	RFI 213 - Vestibule overhand storm pipe column and ceiling conflict	Trimax	5-125	\$1,594	7/20/21	8/10/21																													
HT18	Shoring for Auditorium box girder	Brandsafway	2-008	\$26,290	6/1/21	6/7/21							26,290																						
HT19	OT during concrete placement due snow melt dripping - weather	Riggs	5-122	\$2,797	6/12/21	8/10/21																													
HT20	Temp cable rail removal Ph 1.	Riggs	5-127	\$15,000	potential																														
HT21	Excavate test pits Schouler Ct. for existing conditions U/G elec.	Derenzo	2-402	\$11,933	6/7/21	6/25/21										11,933																			
HT22	CCD 6/ASI 031 Modification to Beam 30B59	Trimax	5-125	\$9,811	5/19/21	6/7/21																													
HT23	Permanent SOE Revision	Derenzo	2-404	\$13,474	6/8/21	6/25/21											13,474																		
HT24	RFI 027.1 - Add steel channel closure plate at stairs - Ph 1	Trimax	5-125	\$4,950	6/12/21	8/10/21																													

			12	12	12	12	12	12	12	12	12	17	19	19	21	21	21	16	4	16	16	16	16	16	16	16	16	25	13	13	5	15	15	14	
Hold Letter #	Description	Trans. To Subs:	HOLD-Trade Support	GMP Hold - Weather Delay	GMP Hold - Add Pen & Framed Op	GMP Hold - Add Picks for Trade	GMP Hold - Add Stl MEP Fac Coo	GMP Hold - Add Supp Stl CurWal	GMP Hold - Maint & Rem Cab Rai	Baseline Control / Survey	GMP Hold - Crane Pad	HOLD-Add'l Moves & Patching day	HOLD - Temp D/HW MEP Closets	HOLD - Quick Ship Ph. 1 Frames	HOLD-Accordion Fire Door	HOLD-Low Volt Wiring OHD-Cntrl	HOLD-Pocket Door 1,4/A9.7.3	HOLD-Temp Construction Items	HOLD-EBP3 Patch/Rep Plast	HOLD-Inst Temp Plywd @ Skyligh	HOLD - Add'l Blocking for FFE	HOLD-Acc Sealant @ JB's	HOLD-Misc Patch RC Work	HOLD-Additional Firestopping	HOLD - Ins/Tape 1&3/A6.1.3	HOLD-Labor Trade Support	HOLD - Lightwell Staging Sp In	HOLD-B-Line Cntrl & Survey	Pre-drill for Operable Partition	HOLD - EBP3 - FE Cab. Install	HOLD - EBP3 - FE Inst Salv Locker	HOLD - EBP3 - Quick Ship	GMP HOLD- Design Asst Windw	GMP HOLD-Hoist Support Ph2	HOLD - Geomembrane. Pen. Patch
			90,000	30,000	48,000	50,000	192,000	60,000	35,000	20,000	50,000	12,000	1,425	5,000	52,610	5,000	6,000	20,000	4,100	60,000	60,000	150,000	100,000	150,000	50,000	600,000	25,000	63,000	5,000	600	2,000	500	5,000	1,000	60,000
			90,000	2,797	0	0	51,926	0	15,000	20,000	0	0	1,425	5,000	0	0	0	20,000	3,943	5,338	9,013	0	10,968	0	0	600,000	0	63,000	1,960	0	0	500	0	0	0
			0	27,203	48,000	50,000	140,074	60,000	20,000	0	50,000	12,000	0	0	52,610	5,000	6,000	0	157	54,662	50,987	150,000	89,032	150,000	50,000	0	25,000	0	3,040	600	2,000	0	5,000	1,000	60,000
HT 1	Additional exploratory test pits at West Lot retaining wall	Derenzo																																	
HT 2	void																																		
HT 3	Baseline Survey	Brennan Surveying								20,000																									
HT 4	Indoor air quality monitoring																																		
HT 6	Misc. Framing & Patching	T.J McC. & Color Concept																	3,543																
HT 7	EBP #4 - Plumb & Elec. sleeve	Irvine & Griffin																																	
HT 8	Repair Orange barrier at West Lot	Derenzo																																	
HT 9	Various Transfer to Gen Requirements	Riggs	90,000															20,000								600,000									
HT 10	Temp lockset for C of O	A&A																	400													500			
HT 11	Furnish electrical sleeves in Bldg E foundations	Griffin																																	
HT 12	EBP 2 - Install cast iron cleanouts on PVC cleanouts on sewer easement	Derenzo																																	
HT 13	EBP 4 - Bldg E Ph. 2/3 colums - added rebar couplers	Riggs																																	
HT 14	Phase 1 baseline/survey	Brennan Surveying																										63,000							
HT15	Quick ship door frames Bldg D L5 & L4. Overage covered CT022. Total Cost is \$5,837	Eaton												5,000																					
HT16	Smoke hatch manual releases at stage level. CCD 007. Previous CR082. VOID	VOID - releases no longer needed																																	
HT16.1	Change smoke hatches at Stage Roof to 5'x8' instead of 5/6" - 12". Change qty to 4 instead of 2.. CCD 007. CR077	Greenwood \$7,054 Colony \$2,154.76																																	
HT17	RFI 213 - Vestibule overhand storm pipe column and ceiling conflict	Trimax					1,594																												
HT18	Shoring for Auditorium box girder	Brandsafway																																	
HT19	OT during concrete placement due snow melt dripping - weather	Riggs		2,797																															
HT20	Temp cable rail removal Ph 1.	Riggs							15,000																										
HT21	Excavate test pits Schouler Ct. for existing conditions U/G elec.	Derenzo																																	
HT22	CCD 6/ASI 031 Modification to Beam 30B59	Trimax					9,811																												
HT23	Permanent SOE Revision	Derenzo																																	
HT24	RFI 027.1 - Add steel channel closure plate at stairs - Ph 1	Trimax					4,950																												
CT025	F&I Temp doors and hardware for Mech/Elec Rms. Ph 1. Balance in CT025	Eaton											1,425																						
HT25	Pre-drill steel for Operable Partition Frames	Trimax																												1,960					
HT26	RFI 239 - Additional supports for dunnage - Bldg D HVAC units	Trimax					4,457																												
HT27	RFI 271 - Beam Penetrations Rm 326	Trimax					1,139																												
HT28	F/I stairs for access to auditorium dance fl.	Riggs																																	
HT29	Temp Roofing for curbs/skylight at Bldg D	Greenwood																		5,338															
HT30	RFI 206 - Add'tl channel to support HRU-9 curb	Trimax					1,876																												
HT31	RFI 280 - Trim steel deck form 14" to 8"	Trimax					2,896																												
HT32	Field install Bldg D davits in lieu of factory install due to timing	Trimax					2,286																												
HT33	RFI 157 Bldg D5 Steel hangers and duct conflict. (CR080)	Trimax					814																												
HT34	RFI 226 Beam penetration in Science Classroom 426. (CR101)	Trimax					3,236																												
HT35	ASI 074 - Beam Penetration at Woodshop 227	Trimax Island					5,579																												
HT36	ASI 069 - Revision to 6/S6.2.4 raised HSS Girt, add plates. (CR138)	Trimax Island					1,598																												
HT37	F&I crushed stones for site maint.	Derenzo																																	
HT38	Add'l blocking CW heads/sills & locker pods	Colony																				9,013													
HT39	Ph 1 steel revision to submittals/shop drawings. (CR098)	Trimax Island					11,692																												
HT44	Site Sanding and Snow Removal Dec 2021 & Jan 2022	Derenzo																																	
HT48	Ext. AVB prep & patching for Bldg D&E	PJ Spillane																																	
HT49	UTS and ANT exploratory	Derenzo																					10,968												

			14	23	23	23	27	27	28	28	29	29	29	30	31	32	32	33	33	33	33	33	34	35	36	36	36	37	38	40	41	41	42	42	43	44	44	45	45	47	47	47		
Hold Letter #	Description	Trans. To Subs:	HOLD - Slab Vent Syst Add Mob	Baseline control & Survey	Storage racks for 30 add'l seating	Storage off site - seating	Add'l training for fume hood	Fume hood testing	Geomemb penetration & patch	Add'l mobilization	Labor support Theater equip	Smoke hatch closure rigging	Stage fl protection	Add'l framing, plywood back up aud. Panels	Patching - \$2,500/day spray acous. Insulation	Supp access for light wells	Trade support	Mock-up bigger than 3'x3'	Custom color Metal Panels	fl. protect during metal panel install	snow removal during metal panel install	Support for ext. column covers	Floor protection-wood fl	Floor protection-carpet	Fl leveling, vapor mitig. Resin/epoxy	Spec. power needs - Resin Epoxy floor	Fl. protection Resin expoy floor	Add'l floor leveling - athlet floor	Misc. items for reloc. lockers	Elec. for window treatment	Projection Screen	Auditorium projection screens	Add'l touch up/repair/mobilization	Fl. Protection	SS panel to cover cabinets fronts	Supp steel for mat hoist	Low Voltage wiring (athletic equip)	On site out of seq. mtl handling	Perimeter anchor trench coord.	Temp top soil, seeding, ground cover	Layout & controls for Phase 4 work	Truck/dispos. Surplus topsoil and imprort loam Phase 4		
			36,000	10,000	1,000	5,000	1,000	5,000	36,800	1,800	50,000	15,000	20,000	45,000	20,000	100,000	50,000	10,000	15,000	60,000	25,000	20,000	25,000	27,000	20,000	10,000	20,132	30,000	5,000	13,000	15,000	10,000	40,000	52,780	10,000	15,000	5,000	50,000	20,000	40,000	50,000	90,000		
			0	10,000	0	0	0	0	0	0	50,000	9,209	20,000	0	0	8,000	50,000	0	0	60,000	0	0	25,000	27,000	0	0	20,132	0	0	0	0	0	0	0	52,780	0	0	0	0	0	0	0	0	0
			36,000	0	1,000	5,000	1,000	5,000	36,800	1,800	0	5,791	0	45,000	20,000	92,000	0	10,000	15,000	0	25,000	20,000	0	0	20,000	10,000	0	30,000	5,000	13,000	15,000	10,000	40,000	15,000	5,000	50,000	20,000	40,000	50,000	90,000				
HT 1	Additional exploratory test pits at West Lot retaining wall	Derenzo																																										
HT 2	void																																											
HT 3	Baseline Survey	Brennan Surveying																																										
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HT 6	Misc. Framing & Patching	T.J McC. & Color Concept																																										
HT 7	EBP #4 - Plumb & Elec. sleeve	Irvine & Griffin																																										
HT 8	Repair Orange barrier at West Lot	Derenzo																																										
HT 9	Various Transfer to Gen Requirements	Riggs									50,000		20,000				50,000			60,000			25,000	27,000			20,132							52,780										
HT 10	Temp lockset for C of O	A&A																																										
HT 11	Furnish electrical sleeves in Bldg E foundations	Griffin																																										
HT 12	EBP 2 - Install cast iron cleanouts on PVC cleanouts on sewer easement	Derenzo																																										
HT 13	EBP 4 - Bldg E Ph. 2/3 columns - added rebar couplers	Riggs																																										
HT 14	Phase 1 baseline/survey	Brennan Surveying		10,000																																								
HT15	Quick ship door frames Bldg D L5 & L4. Overage covered CT022. Total Cost is \$5,837	Eaton																																										
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HT17	RFI 213 - Vestibule overhand storm pipe column and ceiling conflict	Trimax																																										
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HT19	OT during concrete placement due snow melt dripping - weather	Riggs																																										
HT20	Temp cable rail removal Ph 1.	Riggs																																										
HT21	Excavate test pits Schouler Ct. for existing conditions U/G elec.	Derenzo																																										
HT22	CCD 6/ASI 031 Modification to Beam 30B59	Trimax																																										
HT23	Permanent SOE Revision	Derenzo																																										
HT24	RFI 027.1 - Add steel channel closure plate at stairs - Ph 1	Trimax																																										
CT025	F&I Temp doors and hardware for Mech/Elec Rms. Ph 1. Balance in CT025	Eaton																																										
HT25	Pre-drill steel for Operable Partition Frames	Trimax																																										
HT26	RFI 239 - Additional supports for dunnage - Bldg D HVAC units	Trimax																																										
HT27	RFI 271 - Beam Penetrations Rm 326	Trimax																																										
HT28	F/I stairs for access to auditorium dance fl.	Riggs														8,000																												
HT29	Temp Roofing for curbs/skylight at Bldg D	Greenwood																																										
HT30	RFI 206 - Add'l channel to support HRU-9 curb	Trimax																																										
HT31	RFI 280 - Trim steel deck form 14" to 8"	Trimax																																										
HT32	Field install Bldg D davits in lieu of factory install due to timing	Trimax																																										
HT33	RFI 157 Bldg D5 Steel hangers and duct conflict. (CR080)	Trimax																																										
HT34	RFI 226 Beam penetration in Science Classroom 426. (CR																																											



Change Order (CO)

NO: 12

Date of Issuance:

14-March 2022

Project:	Arlington High School	Contract For:	New Construction
Address:	869 Massachusetts Avenue, Arlington MA	Contract Date:	June 26, 2019
Owner:	Town of Arlington		
Address:	730 Massachusetts Avenue Arlington, MA 02476	Project ID:	
From:	HMFH Architects, Inc	To:	Consigli Construction Co., Inc.
Address:	130 Bishop Allen Drive, Cambridge MA 02139	Address:	72 Summer Street, Milford MA

Items included in this Change Order:	Cost:
CR 112.1 ASI-037 Various Revisions to PH2-3 concrete found/slab.	\$ 6,482.95
CR 237 ASI-142 Revised locations of elect devices Exterior Elev 6/A4.3.9	\$ 817.07
CR 243R1 Provisions for Heating via Temp Power due to delay in Permanent Power (Eversource).	\$ 83,643.95
CR 277 RFI-548 Add Electric Elec power for Jockey Pump controller.	\$ 2,673.70

Change Order Total: \$ 93,617.67

THE CONTRACT IS CHANGED AS FOLLOWS:	
Original Contract Sum was:	\$234,287,347.00
Net change by previously authorized Change Order was:	\$ 928,842.27
Contract Sum prior to this Change Order was:	\$235,216,189.27
Contract Sum will be (increased) (decreased) by Change Order in the amount of:	\$ 93,617.67
New Contract Sum including this Change Order will be:	\$235,309,806.94
Contract Time will remain unchanged .	
Date of Substantial Completion as of the date of this Change Order therefore is:	02/11/2022 (Phase 1) 09/19/2023 (Phase 2) 09/18/2024 (Phase 3) 04/25/2025 (Final-Site)

NOTE: This Change Order does not include changes in the Contract Sum, Contract Time or Guaranteed Maximum Price, which have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

Architect HMFH Architects, Inc. 130 Bishop Allen Drive. Cambridge, MA	Owner's Project Manager Skanska USA Building, Inc. 101 Seaport Boulevard, Suite 200 Boston, MA 02210	Construction Manager Consigli Construction Co., Inc. 72 Summer Street Milford, MA 01757
		
BY (Signature) Arthur Duffy	BY (Signature) Jim Burrows	BY (Signature) John LaMarre
03/14/2022		
Date	Date	Date

Town Manager Adam Chapdelaine 730 Massachusetts Avenue Arlington MA, 02476		
BY (Signature) Adam Chapdelaine	BY (Signature)	BY (Signature)
Date	Date	Date

Attachments:	Consigli CR's 112.1, 237, 243R2, 277	
Distribution:	<input checked="" type="checkbox"/> Owner – Adam Chapdelaine	<input checked="" type="checkbox"/> Architect – Arthur Duffy, Lori Cowles HMFH Architects, Inc.
	<input checked="" type="checkbox"/> OPM – Jim Burrows, Sy Nguyen, Hal Raymond, Victoria Clifford Skanska USA Building, Inc.	<input checked="" type="checkbox"/> Contractor – John LaMarre, Todd McCabe, Chris Weber, David Dockendorf Consigli Construction Co., Inc.
	<input checked="" type="checkbox"/> Field – C. McWilliams, T. DeRosa Consigli Construction Co, Inc.	<input type="checkbox"/> Other–



RECEIVED		
03/07/2022		
FOLEY BUHL ROBERTS & ASSOCIATES, INC.		

Change Request

To: Jim Burrows
Skanska USA Building Inc.
253 Summer Street
Boston, MA 02210
Ph: 617-574-1524 Fax: 617-574-1399

Number: CR112.1
Date: 11/22/21
Job: 2153 Arlington High School
Phone:

FBRA Review 03/8/2022

**Cost seems reasonable -
no additional comments.**

Description: ASI-037 - Various Revisions to Ph. 2-3 Concrete Only_Sub. 030722

Source: ASI # 037

We offer the following specifications and pricing to make the changes as described below:

CR112.1 includes Riggs Concrete costs associated with additional concrete foundation and SOD revisions to Phase 2/3 issued under ASI-037 - Various Revisions to Ph. 2-3 Concrete & Steel. CR112.1 includes concrete cost impacts only. Costs associated with structural steel revisions were submitted and processed under CR112. Please see attached pricing and associated backup for additional information.

Assumptions & Qualifications:

- Costs associated with Overtime/Acceleration are not included

Description	Labor	Material	Equipment	Subcontract	Other	Price
Concrete Phase 2-4				\$5,974.10		\$5,974.10
					Subtotal:	\$5,974.10
			Bond (.75%)	\$5,974.10		\$44.81
			General Liability (1.2%)	\$5,974.10		\$71.69
			Subguard (1.4%)	\$5,974.10		\$83.64
			OH&P (5% subs, 10% self perform)	\$6,174.24		\$308.71
					Total:	\$6,482.95

☐ SCHEDULE IMPACT

☒ We have proceeded with this change to achieve schedule.

☐ As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT

Consigli Construction Co., Inc.

CONTRACTOR

72 Sumner Street

Milford MA 01757

OWNER

(Signature)

Arthur Duffy

By

03/08/2022

Date

(Signature)

John LaMarre

By

3/7/22

Date

(Signature)

Jim Burrows

By

3/15/22

Date

Consigli Construction Co., Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com

Hartford CT • Washington DC • Portland ME • Boston MA • Milford MA • Albany NY • New York NY • Pleasant Valley NY • Ronkonkoma NY

H M
F H

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS _____

ASI: 037

date: 3.16.2021

subject: Various Steel revisions Phase 2/3 steel

to: Chris Weber **from:** Arthur Duffy

project id: 408417

project: Arlington High School

distribution: ☒ Skanska ☒ Consigli
☒ HMFH Architects ☐ Other: FBRA

reference: Structural Steel Drawings

attachments: Re-issued sheets:

S1.0, S2.2b, S2.2c, S2.2d, S2.2e, S2.3b, S2.3c, S2.3d, S2.3e,
 S2.4a, S2.4b, S2.5b, S2.5d, S2.6b, S2.6d, S3.2, S4.3.3, S5.2.6,
 S6.2.5, S6.2.6, S6.2.7, S6.2.9, S7.2.1, S7.2.3, S7.2.4, S7.2.5, S7.2.6

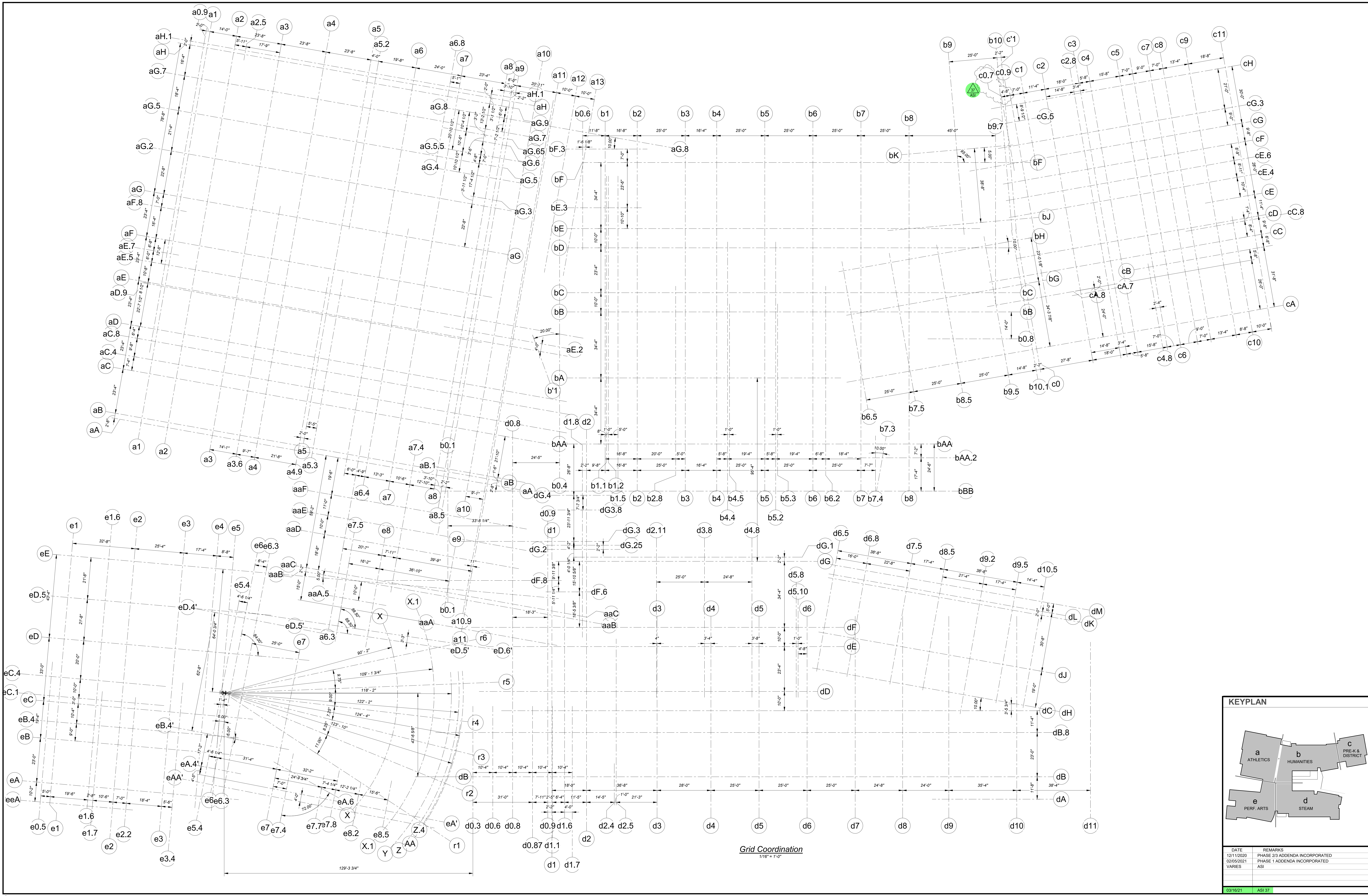
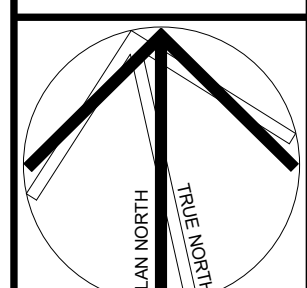
OFFICE. (617) 492 2200
 FAX. (617) 876 9775

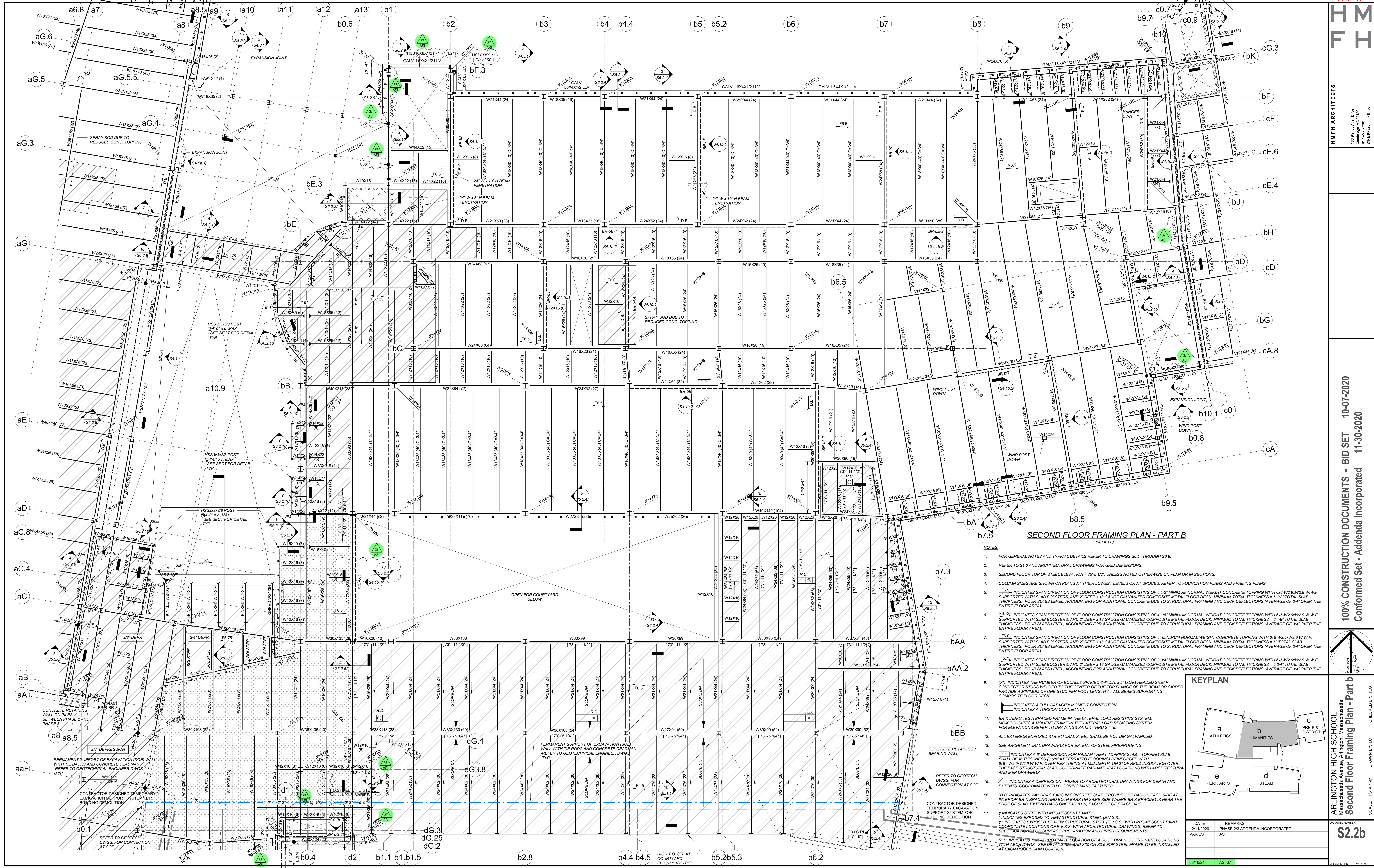
130 Bishop Allen Drive
 Cambridge, MA 02139

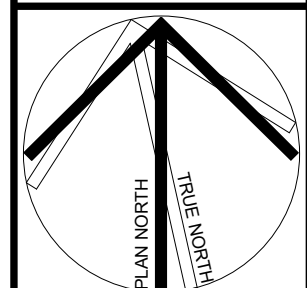
hmfh.com

The Work shall be carried out in accordance with the following Supplemental Instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change in the Contract Sum or Contract time.

Various revisions to Phase 2/3 steel

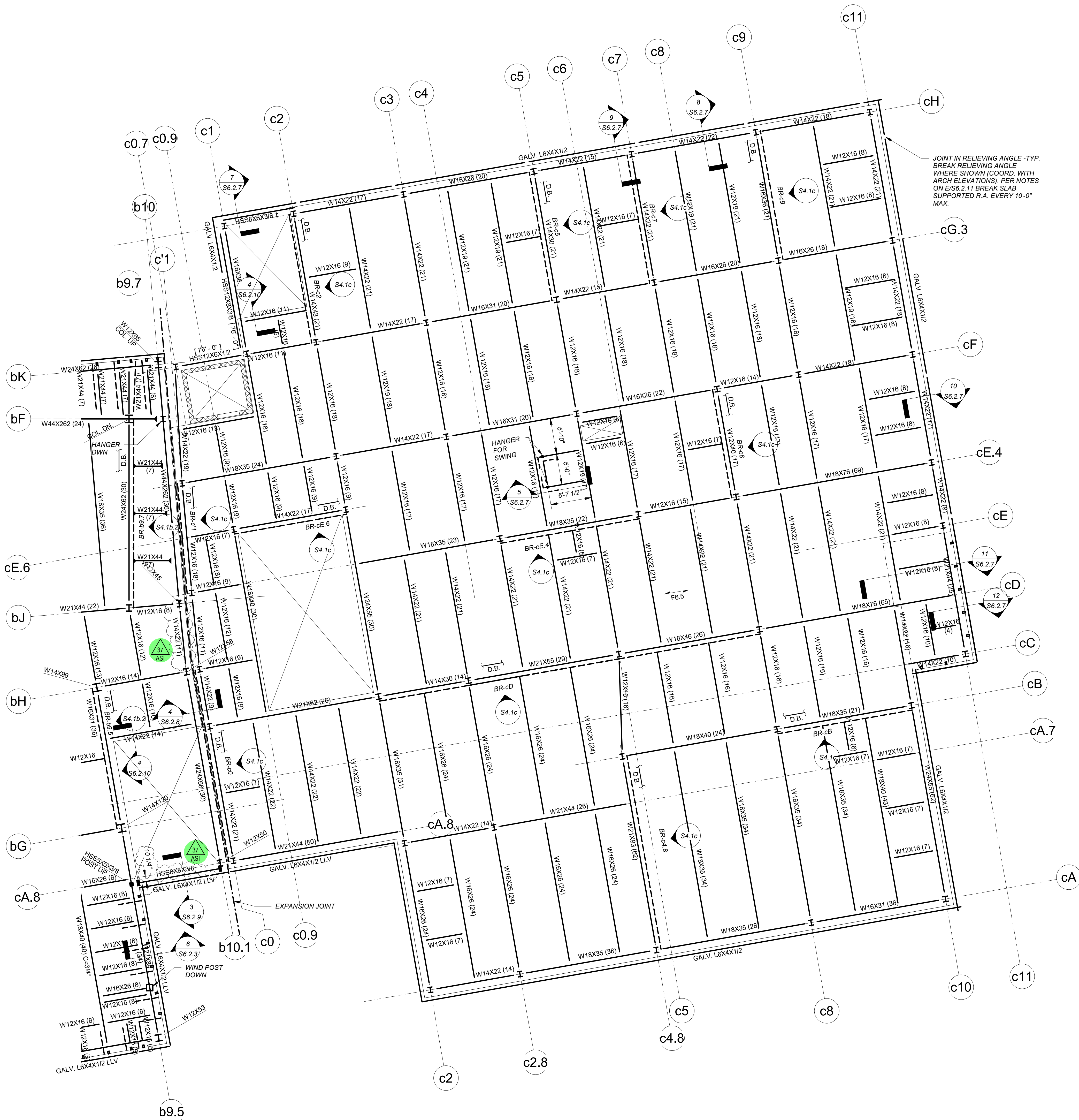


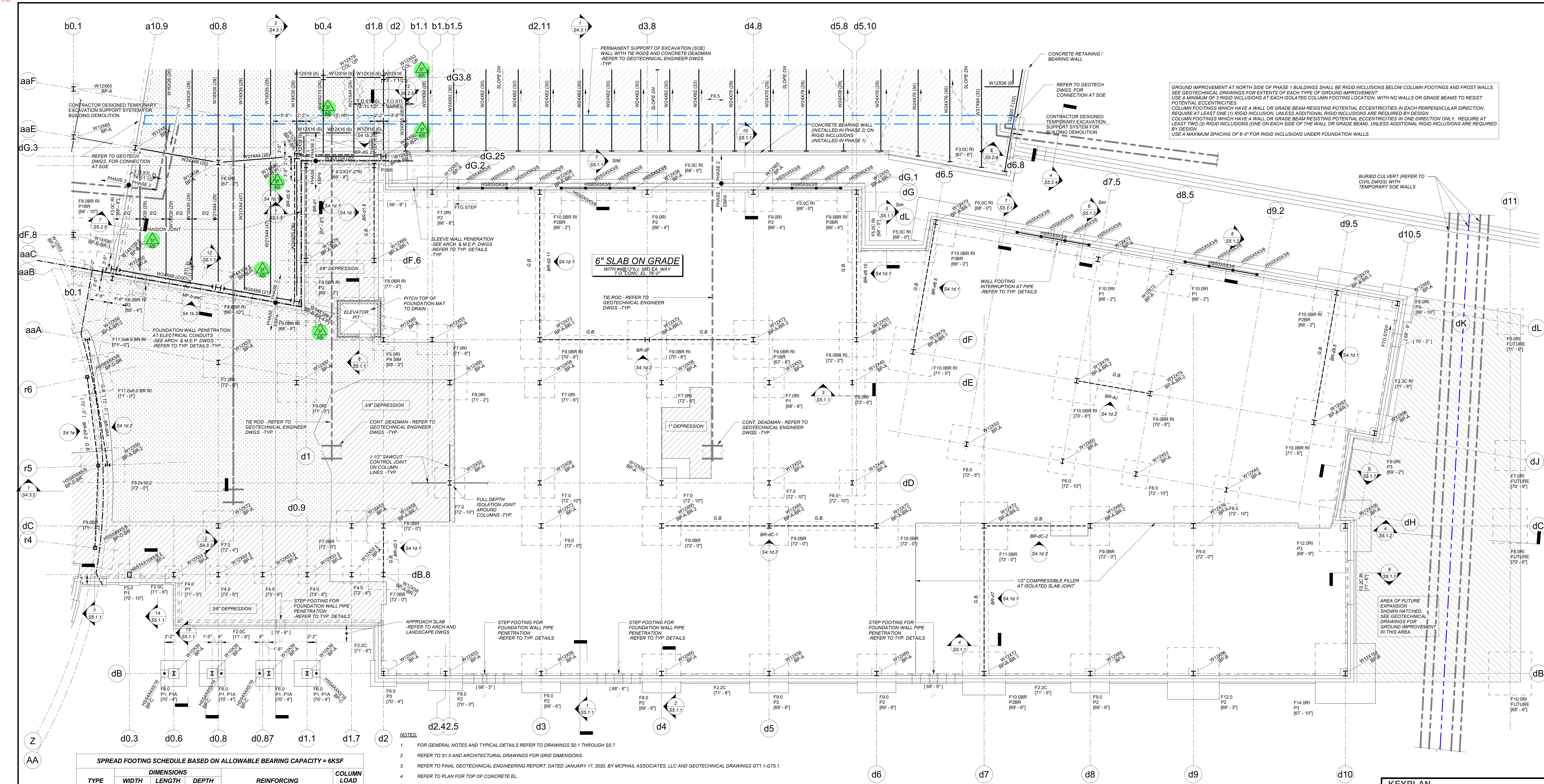




NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.8.
- REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
- SECOND FLOOR TOP OF STEEL ELEVATION = 75'-5 1/2". UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
- COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
- F6.5 - INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6#6-W2.9W2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- F6.9 - INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6#6-W2.9W2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- (00) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
- INDICATES A FULL CAPACITY MOMENT CONNECTION.
INDICATES A TORSION CONNECTION.
- BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. MP-X INDICATES A MOMENT FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a.1 THRU S4.1e.
- ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
- INDICATES A 6" DEPRESSION FOR RADIANT HEAT TOPPING. SLAB TOPPING SLAB SHALL BE 4" THICKNESS (3.5" AT TERRAZZO FLOORING) REINFORCED WITH 6#6 - W2.9W2.9 W.W.F. OVER PEX TUBING AT MID DEPTH. ON 2" OF RIGID INSULATION OVER THE BASE STRUCTURAL SLAB. COORDINATE RADIANT HEAT LOCATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
- INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
- "D.B." INDICATES 2#5 DRAG BARS IN CONCRETE SLAB. PROVIDE ONE BAR ON EACH SIDE AT INTERIOR BR-X BRACING AND BOTH BARS ON SAME SIDE WHERE BR-X BRACING IS NEAR THE EDGE OF SLAB. EXTEND BARS ONE BAY (MIN) EACH SIDE OF BRACE BAY.
- ± INDICATES STEEL WITH INTUMESCENT PAINT.
* INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.).
+ INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.
COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.





SPREAD FOOTING SCHEDULE BASED ON ALLOWABLE BEARING CAPACITY = 6KSF					
TYPE	WIDTH	DIMENSIONS LENGTH	DEPTH	REINFORCING	COLUMN LOAD
F4.0	4'-0"	4'-0"	1'-6"	(5) #5 EACH WAY BOTTOM HOOKED	95k
F4.0RI	4'-0"	4'-0"	2'-0"	(5) #5 EACH WAY BOTTOM HOOKED	95k
F5.0	5'-0"	5'-0"	1'-8"	(10) #5 EACH WAY BOTTOM HOOKED	150k
F5.0RI	5'-0"	5'-0"	2'-0"	(10) #5 EACH WAY BOTTOM HOOKED	150k
F5.0x10.0RI	5'-0"	10'-0"	2'-0"	(12) #6 LONG TOP AND BOT, (23) #5 LAT TOP AND BOT, (2) #5 TIES @ 12" o.c.	300k
F6.0	6'-0"	6'-0"	2'-2"	(12) #6 EACH WAY BOTTOM	215k
F6.0RI	6'-0"	6'-0"	2'-6"	(12) #6 EACH WAY BOTTOM	215k
F7.0	7'-0"	7'-0"	2'-2"	(10) #5 EACH WAY BOTTOM	290k
F7.0BR	7'-0"	7'-0"	2'-2"	(12) #7 EACH WAY TOP AND BOT	290k
F7.0RI	7'-0"	7'-0"	2'-6"	(12) #7 EACH WAY BOTTOM	290k
F8.0	8'-0"	8'-0"	2'-6"	(12) #6 EACH WAY BOTTOM	380k
F8.0BR	8'-0"	8'-0"	2'-6"	(14) #6 EACH WAY TOP AND BOT	380k
F8.0RI	8'-0"	8'-0"	2'-10"	(14) #7 EACH WAY TOP AND BOT	380k
F8.0x10.2	8'-0"	10'-2"	2'-6"	(12) #6 LONG TOP AND BOT, (16) #6 LAT TOP AND BOT, 2#5 TIES @ 12" o.c.	490k
F9.0	9'-0"	9'-0"	3'-0"	(13) #7 EACH WAY BOTTOM	485k
F9.0BR	9'-0"	9'-0"	3'-0"	(13) #7 EACH WAY TOP AND BOT	485k
F9.0BR RI	9'-0"	9'-0"	3'-4"	(13) #8 EACH WAY TOP AND BOT	485k
F9.0RI	9'-0"	9'-0"	3'-4"	(13) #8 EACH WAY BOTTOM	485k
F10.0	10'-0"	10'-0"	3'-0"	(11) #10 EACH WAY BOTTOM	600k
F10.0BR	10'-0"	10'-0"	3'-0"	(11) #10 EACH WAY TOP AND BOT	600k
F10.0BR RI	10'-0"	10'-0"	3'-6"	(11) #11 EACH WAY TOP AND BOT	600k
F11.0BR	11'-0"	11'-0"	3'-0"	(13) #10 EACH WAY TOP AND BOT	725k
F11.0x8.0 BR RI	8'-0"	11'-0"	3'-6"	(17) #6 LONG TOP AND BOT, (23) #6 LAT TOP AND BOT, 2#5 TIES @ 12" o.c.	525k
F12.0	12'-0"	12'-0"	3'-3"	(13) #11 EACH WAY BOTTOM	860k
F12.0BR	12'-0"	12'-0"	3'-3"	(13) #11 EACH WAY TOP AND BOT	860k
F12.0RI	12'-0"	12'-0"	3'-9"	(15) #11 EACH WAY BOTTOM	860k
F14.0RI	14'-0"	14'-0"	4'-8"	(16) #11 EACH WAY BOTTOM	1176k
F 9.0X13'-2"RI	31'-2"	9'-0"	3'-0"	(15) #6 LONG TOP, (15) #6 LONG BOT, #7 @ 12" o.c. TOP AND BOT LAT, 2#5 TIES @ 12" OC	1680k

- NOTES:**
- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.7.
 - REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
 - REFER TO FINAL GEOTECHNICAL ENGINEERING REPORT, DATED JANUARY 17, 2020, BY MCPHAIL ASSOCIATES, LLC AND GEOTECHNICAL DRAWINGS GT1.1-GT5.1.
 - REFER TO PLAN FOR TOP OF CONCRETE EL.
 - SECOND FLOOR TOP OF STEEL ELEVATION = 75'-5 1/2". UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
 - COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
 - COLUMN LOADS HAVE BEEN PROVIDED IN THE SPREAD FOOTING SCHEDULE FOR USE IN THE DESIGN OF THE RIGID INCLUSIONS / GROUND IMPROVEMENT. COLUMN LOADS ARE UNFACTORED (ASD) LOADS AND DO NOT INCLUDE THE WEIGHT OF THE FOOTING, SOIL OVERBURDEN LOAD, ETC.
 - ESTIMATED ELEVATION OF BOTTOM OF FOOTING IS INDICATED THUS [X'-Y] ON PLAN. BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT FINISH GRADE.
 - ANTICIPATED COLUMN FOOTING LOCATIONS AND SIZES FOR FUTURE STEEL FRAMED ADDITIONS ARE SHOWN DASHED ON PLAN. PERIMETER COLUMNS AND FOOTINGS IN THESE AREAS HAVE BEEN DESIGNED FOR THE ADDED LOAD (80 PSF FLOOR DEAD, 80 PSF FLOOR LIVE AT CORRIDORS, 65 PSF FLOOR LIVE AT CLASSROOMS, 45 PSF ROOF DEAD, AND 35 PSF SNOW) FROM THE FUTURE ADDITIONS BASED ON THE COLUMN LOCATIONS SHOWN.
 - F6.5 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6#6-W2.9W2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
 - BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a-1 THROUGH S4.1e.
 - "G.B." INDICATES A REINFORCED CONCRETE GRADE BEAM. SEE SECTIONS FOR SIZE AND REINFORCING. EXTEND AND HOOK LONGITUDINAL REINFORCING INTO FOOTING/PIER AT EACH END AND PROVIDE CLASS B SPLICES WHERE REQUIRED.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DOOR THRESHOLDS AND SLOPING SLABS TO DRAINS.
 - COORDINATE DIMENSIONS AND LOCATIONS OF ANY PIPES OR DUCTS TO BE PLACED UNDER OR THROUGH THE SLABS OR FOUNDATION WALL WITH ARCHITECTURAL AND MEP DRAWINGS.
 - [XX] INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
 - [] INDICATES A 6" DEPRESSION FOR RADIANT HEAT TOPPING SLAB. TOPPING SLAB SHALL BE REINFORCED WITH 6#6 - W2.9W2.9 W.W.F. OVER PEX TUBING AT MID DEPTH ON 2" OF RIGID INSULATION OVER THE BASE STRUCTURAL SLAB.
 - [] INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
 - FOOTINGS AND SLAB ON GRADE SHALL BEAR DIRECTLY ON GLACIAL DEPOSIT OR ON SOIL IMPROVED WITH GROUND IMPROVEMENT METHODS. SEE GEOTECH DWGS FOR LOCATIONS OF APs vs. RIs. USE A MINIMUM OF 3 RIGID INCLUSIONS AT EACH FOOTING LOCATION. USE A MAX. SPACING OF 8'-0" FOR RIGID INCLUSIONS UNDER FOUNDATION WALLS.
 - † INDICATES STEEL WITH INTUMESCENT PAINT.
 - * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.
 - COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.
 - SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.

SECOND FLOOR FOUNDATION PLAN - PART D

CONT. FOOTING SCHEDULE BASED ON ALLOWABLE BEARING CAPACITY = 6KSF				
TYPE	DIMENSIONS WIDTH	DEPTH	REINFORCING	LINE LOAD
F2.0C	2'-0"	12"	(2) #5 CONT.	8.0 K/FT
F2.2C	2'-2"	12"	(2) #5 CONT.	9.4 K/FT
F2.2C 18	2'-2"	18"	(2) #5 CONT.	9.4 K/FT
F2.2C RI	2'-2"	12"	(2) #5 CONT.	9.4 K/FT
F3.0C RI	3'-0"	12"	(4) #5 CONT.	18.0 K/FT
F5.0C RI	5'-0"	20"	SEE SECTION	30.0 K/FT

KEYPLAN

ARLINGTON HIGH SCHOOL
Massachusetts Avenue, Arlington, Massachusetts
Second Floor Foundation Plan - Part d

DATE: 02/05/2021
REMARKS: PHASE 1 ADDENDA INCORPORATED
VARIES: ASI

SCALE: AS SHOWN

CHECKED BY: JEG
DRAWN BY: LC

DRAWING NUMBER: **S2.2d**

JOB NUMBER: 201772

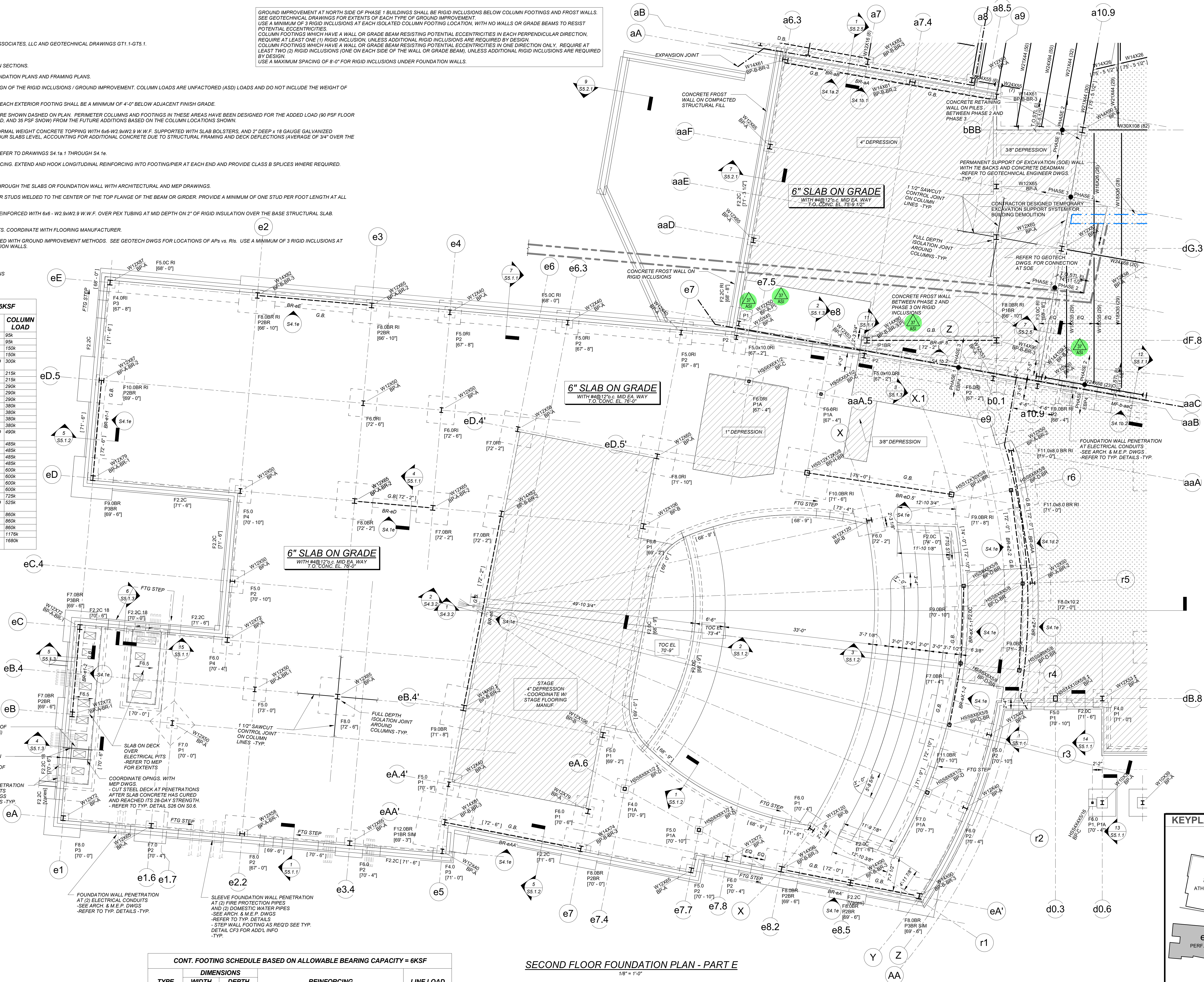
NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.7.
- REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
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- REFER TO PLAN FOR TOP OF CONCRETE EL.
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- COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
- COLUMN LOADS HAVE BEEN PROVIDED IN THE SPREAD FOOTING SCHEDULE FOR USE IN THE DESIGN OF THE RIGID INCLUSIONS / GROUND IMPROVEMENT. COLUMN LOADS ARE UNFACTORED (ASD) LOADS AND DO NOT INCLUDE THE WEIGHT OF THE FOOTING, SOIL OVERBURDEN LOAD, ETC.
- ESTIMATED ELEVATION OF BOTTOM OF FOOTING IS INDICATED THUS [X'-X"] ON PLAN. BOTTOM OF EACH EXTERIOR FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW ADJACENT FINISH GRADE.
- ANTICIPATED COLUMN FOOTING LOCATIONS AND SIZES FOR FUTURE STEEL FRAMED ADDITIONS ARE SHOWN DASHED ON PLAN. PERIMETER COLUMNS AND FOOTINGS IN THESE AREAS HAVE BEEN DESIGNED FOR THE ADDED LOAD (90 PSF FLOOR DEAD, 80 PSF FLOOR LIVE AT CORRIDORS, 55 PSF FLOOR LIVE AT CLASSROOMS, 45 PSF ROOF DEAD, AND 35 PSF SNOW) FROM THE FUTURE ADDITIONS BASED ON THE COLUMN LOCATIONS SHOWN.
- ± INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a.1 THROUGH S4.1e.
- "G.B." INDICATES A REINFORCED CONCRETE GRADE BEAM. SEE SECTIONS FOR SIZE AND REINFORCING. EXTEND AND HOOK LONGITUDINAL REINFORCING INTO FOOTING/PIER AT EACH END AND PROVIDE CLASS B SPLICES WHERE REQUIRED.
- REFER TO ARCHITECTURAL DRAWINGS FOR DOOR THRESHOLDS AND SLOPING SLABS TO DRAINS.
- COORDINATE DIMENSIONS AND LOCATIONS OF ANY PIPES OR DUCTS TO BE PLACED UNDER OR THROUGH THE SLABS OR FOUNDATION WALL WITH ARCHITECTURAL AND MEP DRAWINGS.
- (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
- INDICATES A 6" DEPRESSION FOR RADIANT HEAT TOPPING SLAB. TOPPING SLAB SHALL BE REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. OVER PEK TUBING AT MID DEPTH ON 2" OF RIGID INSULATION OVER THE BASE STRUCTURAL SLAB. COORDINATE RADIANT HEAT LOCATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
- INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
- FOOTINGS AND SLAB ON GRADE SHALL BEAR DIRECTLY ON GLACIAL DEPOSIT OR ON SOIL IMPROVED WITH GROUND IMPROVEMENT METHODS. SEE GEOTECH DWGS FOR LOCATIONS OF APs vs. Ris. USE A MINIMUM OF 3 RIGID INCLUSIONS AT EACH FOOTING LOCATION. USE A MAX. SPACING OF 8'-0" FOR RIGID INCLUSIONS UNDER FOUNDATION WALLS.
- ± INDICATES STEEL WITH INTUMESCENT PAINT.
"INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.)."
"INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT."
COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.

GROUND IMPROVEMENT AT NORTH SIDE OF PHASE 1 BUILDINGS SHALL BE RIGID INCLUSIONS BELOW COLUMN FOOTINGS AND FROST WALLS. SEE GEOTECHNICAL DRAWINGS FOR EXTENTS OF EACH TYPE OF GROUND IMPROVEMENT. USE A MINIMUM OF 3 RIGID INCLUSIONS AT EACH ISOLATED COLUMN FOOTING LOCATION, WITH NO WALLS OR GRADE BEAMS TO RESIST POTENTIAL ECCENTRICITIES. COLUMN FOOTINGS WHICH HAVE A WALL OR GRADE BEAM RESISTING POTENTIAL ECCENTRICITIES IN EACH PERPENDICULAR DIRECTION, REQUIRE AT LEAST ONE (1) RIGID INCLUSION, UNLESS ADDITIONAL RIGID INCLUSIONS ARE REQUIRED BY DESIGN. COLUMN FOOTINGS WHICH HAVE A WALL OR GRADE BEAM RESISTING POTENTIAL ECCENTRICITIES IN ONE DIRECTION ONLY, REQUIRE AT LEAST TWO (2) RIGID INCLUSIONS (ONE ON EACH SIDE OF THE WALL OR GRADE BEAM), UNLESS ADDITIONAL RIGID INCLUSIONS ARE REQUIRED BY DESIGN. USE A MAXIMUM SPACING OF 8'-0" FOR RIGID INCLUSIONS UNDER FOUNDATION WALLS.

SPREAD FOOTING SCHEDULE BASED ON ALLOWABLE BEARING CAPACITY = 6KSF

TYPE	DIMENSIONS			REINFORCING	COLUMN LOAD
	WIDTH	LENGTH	DEPTH		
F4.0	4'-0"	4'-0"	1'-6"	(5) #5 EACH WAY BOTTOM HOOKED	95k
F4.0RI	4'-0"	4'-0"	2'-0"	(5) #5 EACH WAY BOTTOM HOOKED	95k
F5.0	5'-0"	5'-0"	1'-8"	(10) #5 EACH WAY BOTTOM HOOKED	150k
F5.0RI	5'-0"	5'-0"	2'-0"	(10) #5 EACH WAY BOTTOM HOOKED	150k
F5.0x10.0RI	5'-0"	10'-0"	2'-6"	(12) #6 LONG TOP AND BOT, (23) #5 LAT TOP AND BOT, (2) #5 TIES @ 12" o.c.	300k
F6.0	6'-0"	6'-0"	2'-2"	(12) #5 EACH WAY BOTTOM	215k
F6.0RI	6'-0"	6'-0"	2'-6"	(12) #5 EACH WAY BOTTOM	215k
F7.0	7'-0"	7'-0"	2'-2"	(10) #6 EACH WAY BOTTOM	290k
F7.0BR	7'-0"	7'-0"	2'-6"	(12) #7 EACH WAY TOP AND BOT	290k
F7.0RI	7'-0"	7'-0"	2'-6"	(12) #7 EACH WAY BOTTOM	290k
F8.0	8'-0"	8'-0"	2'-6"	(12) #6 EACH WAY BOTTOM	380k
F8.0BR	8'-0"	8'-0"	2'-6"	(14) #6 EACH WAY TOP AND BOT	380k
F8.0BR RI	8'-0"	8'-0"	2'-10"	(14) #7 EACH WAY TOP AND BOT	380k
F8.0RI	8'-0"	8'-0"	2'-10"	(12) #7 EACH WAY BOTTOM	380k
F8.0x10.2	8'-0"	10'-2"	2'-6"	(12) #6 LONG TOP AND BOT, (16) #6 LAT TOP AND BOT, (2) #5 TIES @ 12" o.c.	490k
F9.0	9'-0"	9'-0"	3'-0"	(13) #7 EACH WAY BOTTOM	485k
F9.0BR	9'-0"	9'-0"	3'-0"	(13) #7 EACH WAY TOP AND BOT	485k
F9.0BR RI	9'-0"	9'-0"	3'-4"	(13) #8 EACH WAY TOP AND BOT	485k
F9.0RI	9'-0"	9'-0"	3'-4"	(13) #8 EACH WAY BOTTOM	485k
F10.0	10'-0"	10'-0"	3'-0"	(11) #10 EACH WAY BOTTOM	600k
F10.0BR	10'-0"	10'-0"	3'-0"	(11) #10 EACH WAY TOP AND BOT	600k
F10.0BR RI	10'-0"	10'-0"	3'-6"	(11) #11 EACH WAY TOP AND BOT	600k
F10.0RI	10'-0"	10'-0"	3'-6"	(11) #11 EACH WAY BOTTOM	600k
F11.0BR	11'-0"	11'-0"	3'-0"	(12) #10 EACH WAY TOP AND BOT	725k
F11.0x8.0 BR RI	8'-0"	11'-0"	3'-6"	(17) #6 LONG TOP AND BOT, (23) #6 LAT TOP AND BOT, (2) #5 TIES @ 12" o.c.	525k
F12.0	12'-0"	12'-0"	3'-3"	(13) #11 EACH WAY BOTTOM	860k
F12.0BR	12'-0"	12'-0"	3'-3"	(13) #11 EACH WAY TOP AND BOT	860k
F12.0RI	12'-0"	12'-0"	3'-9"	(15) #11 EACH WAY BOTTOM	860k
F14.0RI	14'-0"	14'-0"	4'-8"	(16) #11 EACH WAY BOTTOM	1176k
F9.0X31'-2"RI	31'-2"	9'-0"	3'-0"	(15) #6 LONG TOP, (15) #6 LONG BOT, #7 @ 17" o.c. TOP AND BOT LAT, 2#5 TIES @ 12" o.c.	1680k



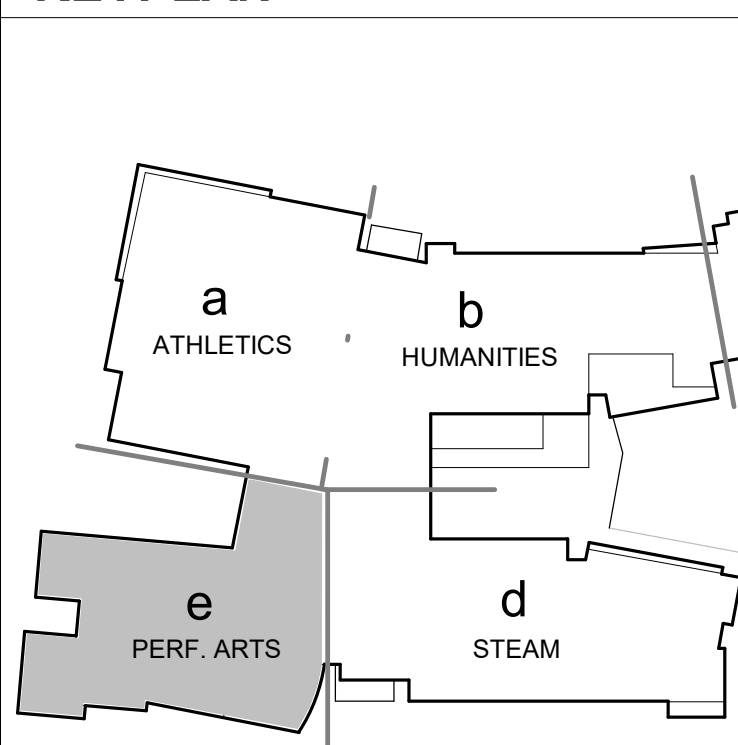
CONT. FOOTING SCHEDULE BASED ON ALLOWABLE BEARING CAPACITY = 6KSF

TYPE	DIMENSIONS		REINFORCING	LINE LOAD
	WIDTH	DEPTH		
F2.0C	2'-0"	12"	(2) #5 CONT.	8.0 K/FT
F2.2C	2'-2"	12"	(2) #5 CONT.	9.4 K/FT
F2.2C 16	2'-2"	16"	(2) #5 CONT.	9.4 K/FT
F2.2C RI	2'-2"	12"	(2) #5 CONT.	9.4 K/FT
F3.0C RI	3'-0"	12"	(4) #5 CONT.	18.0 K/FT
F5.0C RI	5'-0"	20"	SEE SECTION	30.0 K/FT

SECOND FLOOR FOUNDATION PLAN - PART E

1/8" = 1'-0"

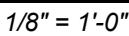
KEYPLAN







DATE	REMARKS
12/11/2020	PHASE 2/3 ADDENDA INCORPORATED
02/05/2021	ASI
VARIES	

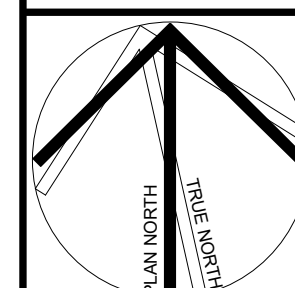
ARLINGTON HIGH SCHOOL
Massachusetts Avenue, Arlington, Massachusetts
Second Floor Foundation Plan -
Part e
SCALE: As indicated
DRAWN BY: LC
CHECKED BY: JEG

S2.2e



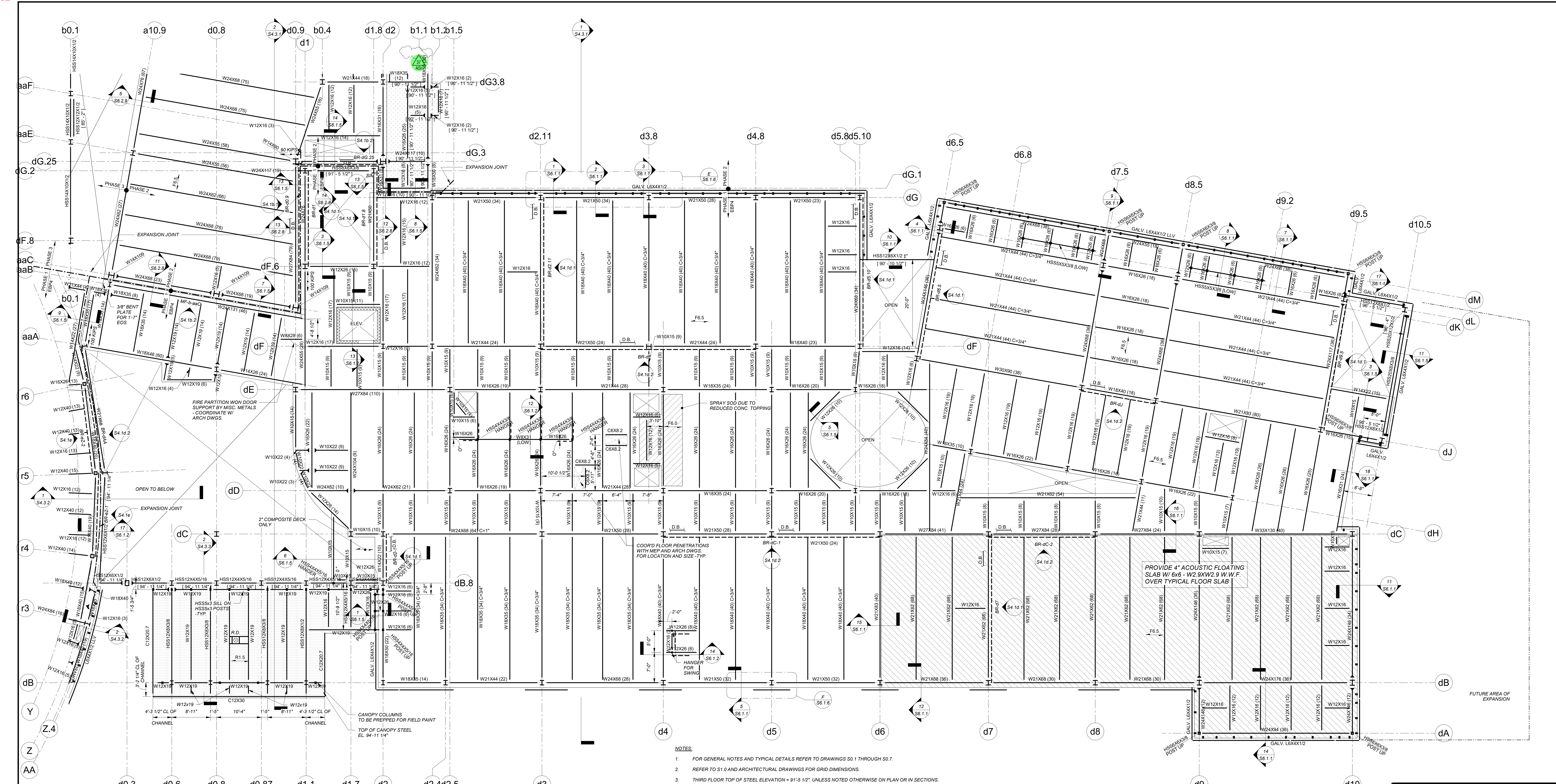
NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.8
2. REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
3. THIRD FLOOR TOP OF STEEL ELEVATION = 91'-5 1/2" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
4. COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPICES.
5. **F6.5** INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6#6-W2-W2 9 W W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR PLATE. MINIMUM TOTAL THICKNESS = 8 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
6. **F6.0** INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6#6-W2-W2 9 W W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR PLATE. MINIMUM TOTAL THICKNESS = 6" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
7. (X) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTION STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR CORNER, PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
8.  INDICATES A FULL CAPACITY MOMENT CONNECTION.
9.  INDICATES A TORSION CONNECTION.
10. BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS 34.1a.1 THRU 34.1e
11. COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS, VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
12. ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
13.  INDICATES A 6" DEPRESSION FOR RADIANT HEAT TOPPING SLAB. TOPPING SLAB SHALL BE 4" THICKNESS (3 5/8" AT TERRAZZO FLOORING) REINFORCED WITH 6#6-W2-W2 9 W W.F. OVER EXIST' PGX TUBING AT MID DEPTH, ON 2" OF RIGID INSULATION OVER THE BASE STRUCTURAL SLAB. COORDINATE RADIANT HEAT LOCATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
14.  INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
15. "D" BR INDICATES 3x6 DRAG BARS IN CONCRETE SLAB. PROVIDE ONE BAR ON EACH SIDE AT INTERIOR BR-X BRACING AND BOTH BARS ON SAME SIDE WHERE BR-X BRACING IS NEAR THE EDGE OF SLAB. EXTEND BARS ONE BAY (MIN) EACH SIDE OF BRACE BAY.
16. # INDICATES STEEL WITH INTUMESCENT PAINT.
 - * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.)
 - * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.



- NOTES:**
- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.8.
 - REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
 - PART C ROOF TOP OF STEEL ELEVATION = 90'-10 1/2" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
 - COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES.
 - F5.5 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH #6@W2.9W@2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 5 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
 - R1.5 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 1 1/2" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.
 - (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG (TYP. AT 5'-5" SLAB USE #7) HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
 - INDICATES A FULL CAPACITY MOMENT CONNECTION.
 - INDICATES A TORSION CONNECTION.
 - BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a.1 THRU S4.1e.
 - COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS, VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
 - ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
 - SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
 - R.D. INDICATES THE APPROXIMATE LOCATION OF A ROOF DRAIN. COORDINATE LOCATIONS WITH ARCH DWGS. SEE DETAILS S29 AND S30 ON S0.5 FOR STEEL FRAME TO BE INSTALLED AT EACH ROOF DRAIN LOCATION.
 - INDICATES A ROOF AREA.
 - "D" INDICATES 2#5 DRAG BARS IN CONCRETE SLAB. PROVIDE ONE BAR ON EACH SIDE AT INTERIOR BR-X BRACING AND BOTH BARS ON SAME SIDE WHERE BR-X BRACING IS NEAR THE EDGE OF SLAB. EXTEND BARS ONE BAY (MIN) EACH SIDE OF BRACE BAY.
 - ‡ INDICATES STEEL WITH INTUMESCENT PAINT.
* INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.).
+ INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.
COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.





THIRD FLOOR FRAMING PLAN - PART D
1/8" = 1'-0"

- NOTES:
- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.7.
 - REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
 - THIRD FLOOR TOP OF STEEL ELEVATION = 91'-5 1/2" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
 - COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES.
 - INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
 - INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
 - INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 1 1/2" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.
 - (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
 - INDICATES A FULL CAPACITY MOMENT CONNECTION.
 - INDICATES A TORSION CONNECTION.
 - BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a.1 THRU S4.1e.
 - COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS, VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
 - ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
 - SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
 - INDICATES A 6" DEPRESSION FOR RADIANT HEAT TOPPING SLAB. TOPPING SLAB SHALL BE REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. OVER PEX TUBING AT MID DEPTH ON 2" OF RIGID INSULATION OVER THE BASE STRUCTURAL SLAB. COORDINATE RADIANT HEAT LOCATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
 - INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
 - INDICATES A ROOF AREA.
 - "D" B" INDICATES 2-#5 DRAG BARS IN CONCRETE SLAB. PROVIDE ONE BAR ON EACH SIDE AT INTERIOR BR-X BRACING AND BOTH BARS ON SAME SIDE WHERE BR-X BRACING IS NEAR THE EDGE OF SLAB. EXTEND BARS ONE BAY (MIN) EACH SIDE OF BRACE BAY.
 - INDICATES STEEL WITH INTUMESCENT PAINT.
* INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.).
+ INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.
COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.

KEYPLAN

ARLINGTON HIGH SCHOOL
Massachusetts Avenue, Arlington, Massachusetts
Third Floor Framing Plan - Part d

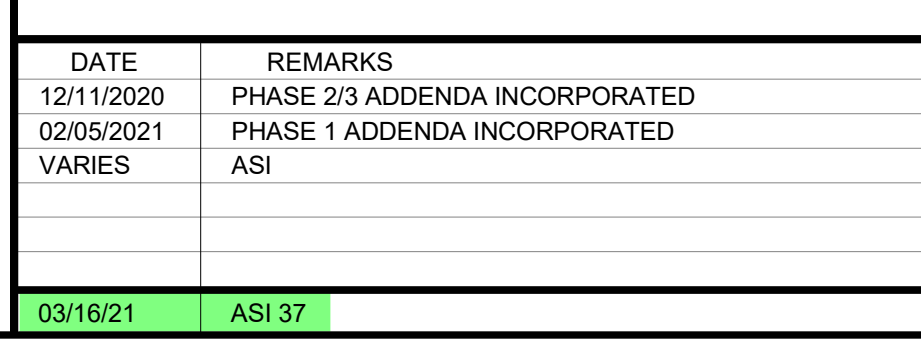
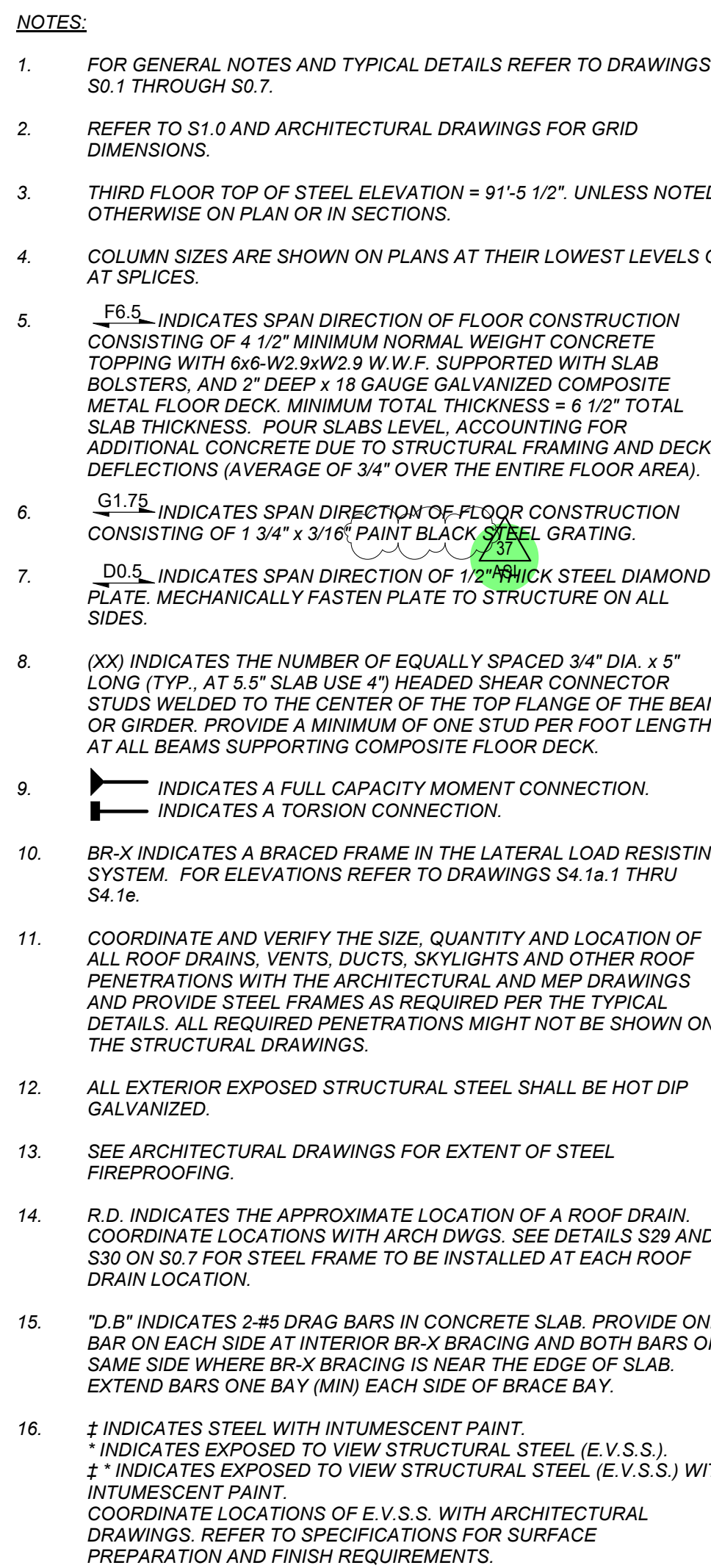
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REMARKS: PHASE 2/3 ADDENDA INCORPORATED
02/05/2021
VARIES: ASI

DRAWING NUMBER: **S2.3d**

SCALE: As indicated

CHECKED BY: JEG

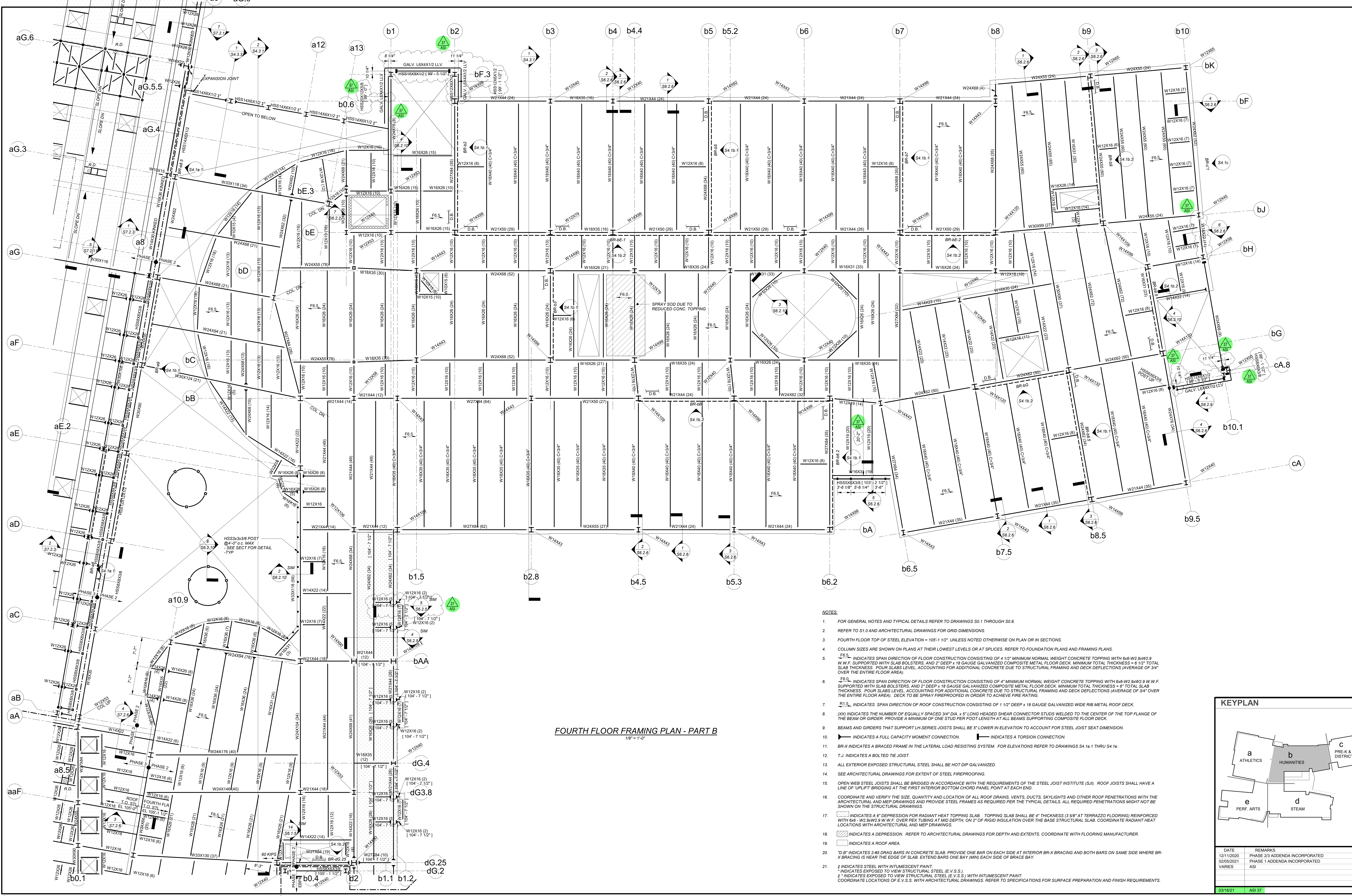
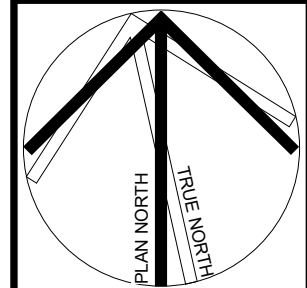
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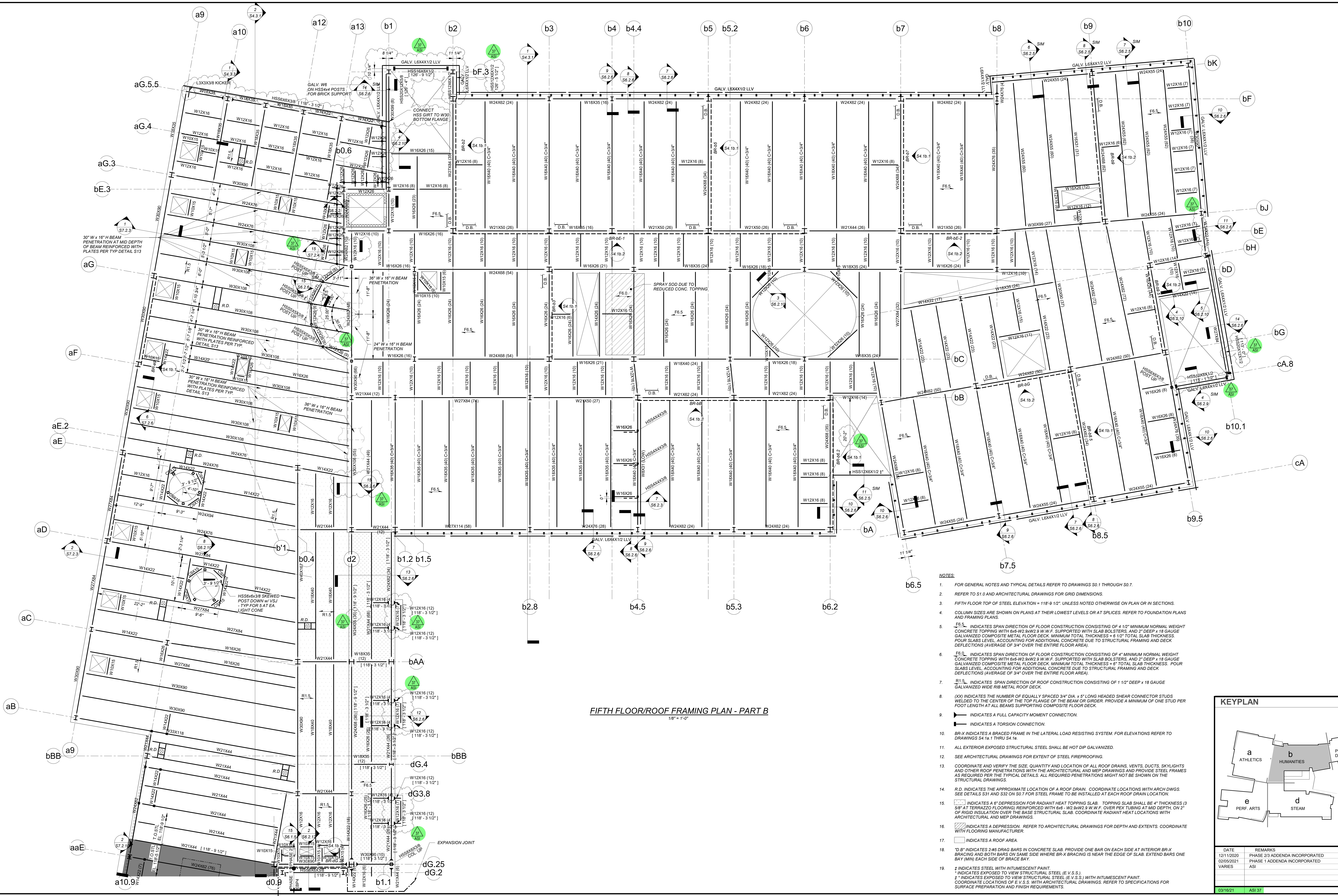
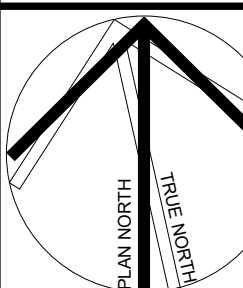


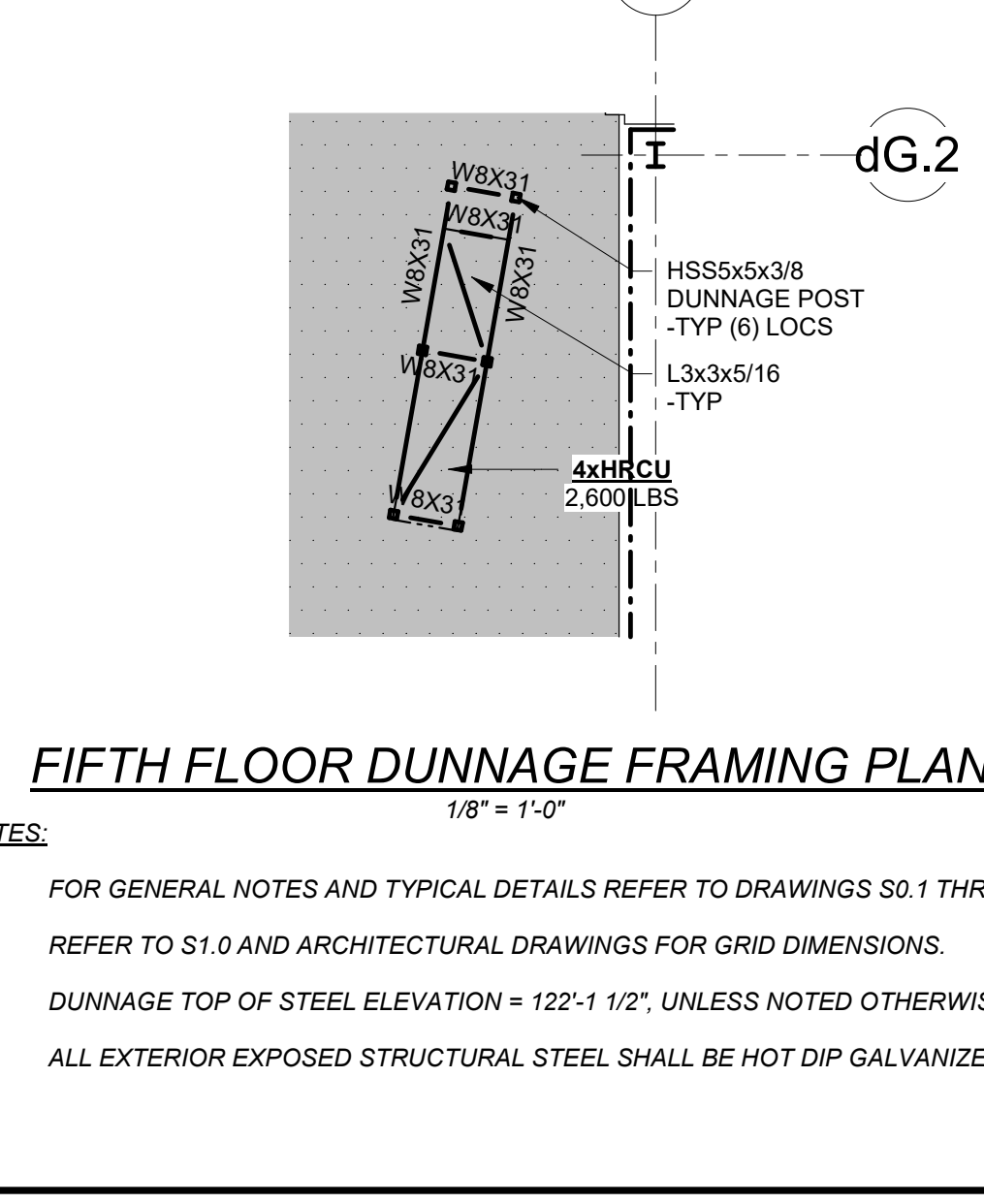
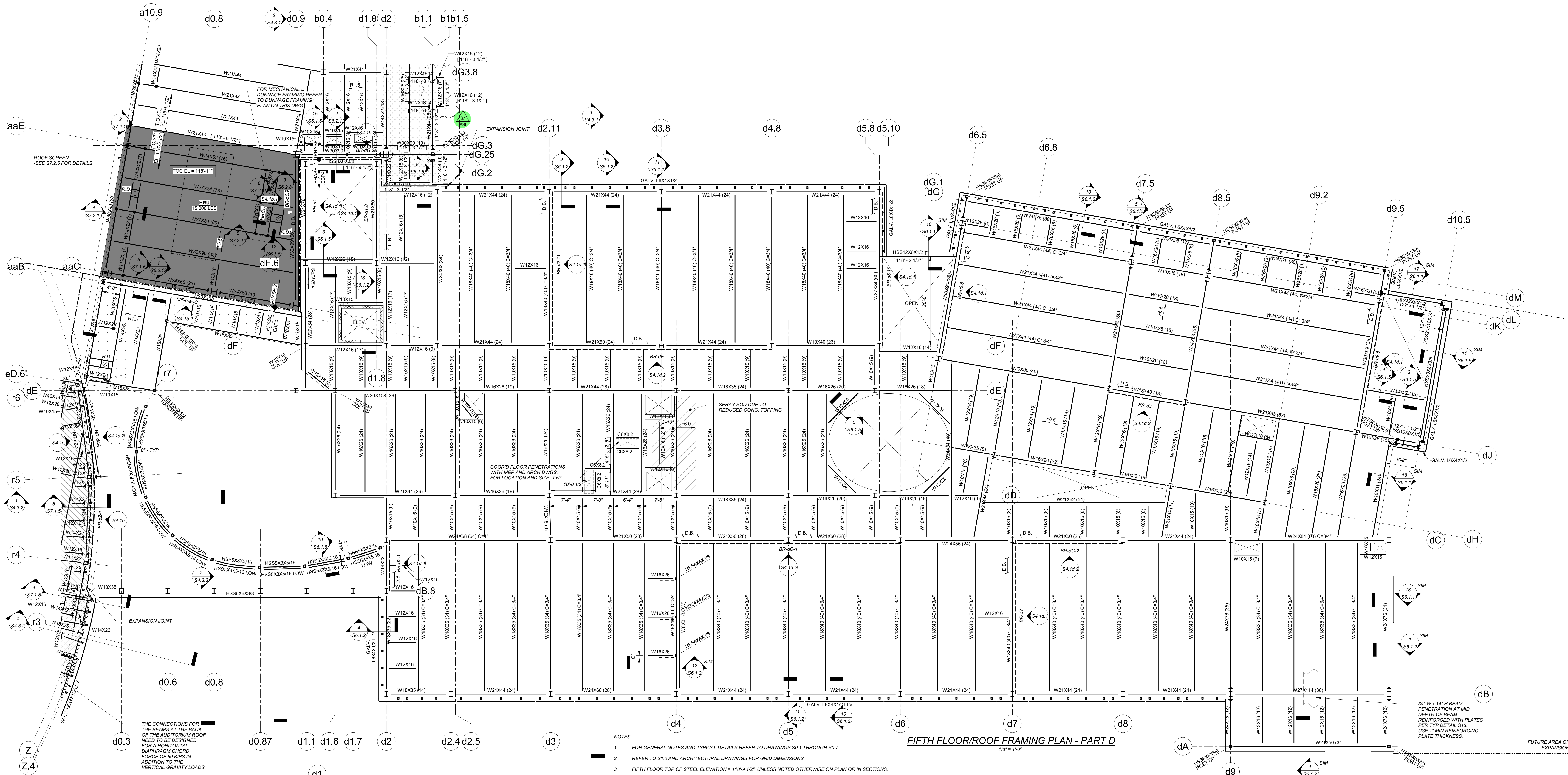
$1/8" = 1'-0"$

ROOF DIAPHRAGM DECK SCHEDULE - PART A				
ZONE	CELLULAR ACOUSTIC ROOF DECK	5/8" WELD CONNECTION PATTERN TO SUPPORT STEEL AND LONGITUDINAL EDGES AT SIDE SUPPORTS	AT INTERMEDIATE SUPPORTS	DECK SIDELAP CONNECTIONS
DECK ZONE 1	3"x18"18 GAUGE	24/4	24/4	2#12 SCREWS PER 6" DECK SPAN
DECK ZONE 2	3"x19"18 GAUGE	24/8	24/8	1#12 SCREWS PER 6" DECK SPAN



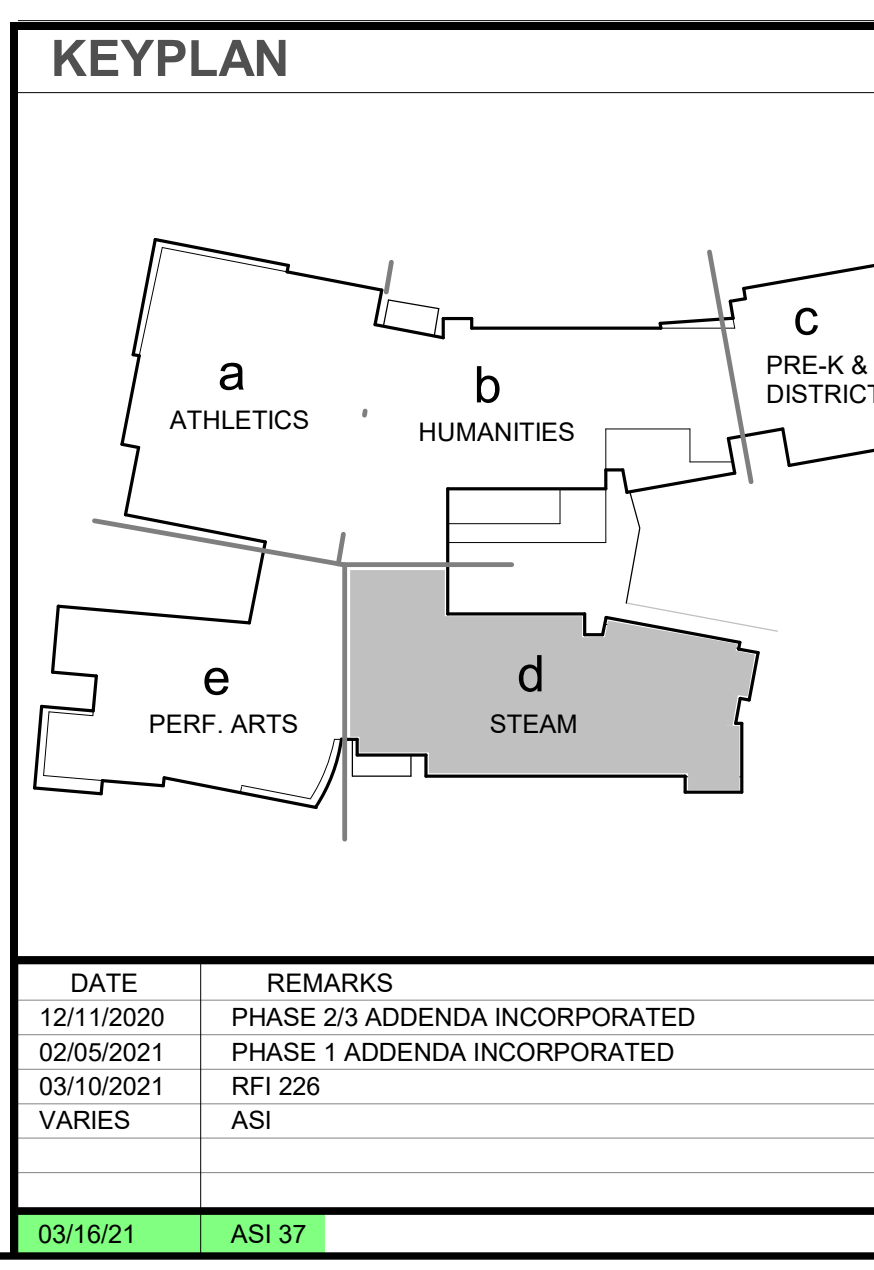




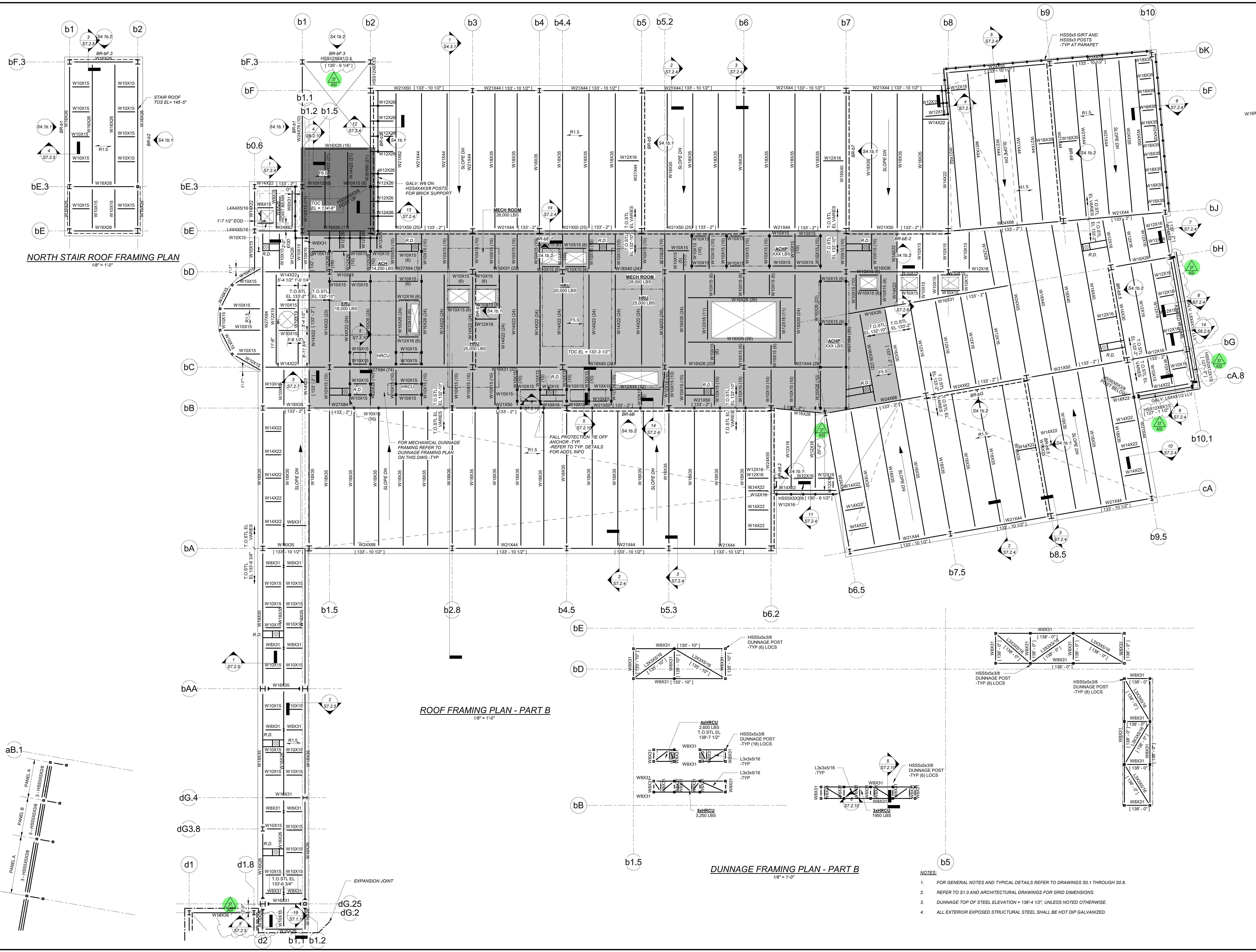
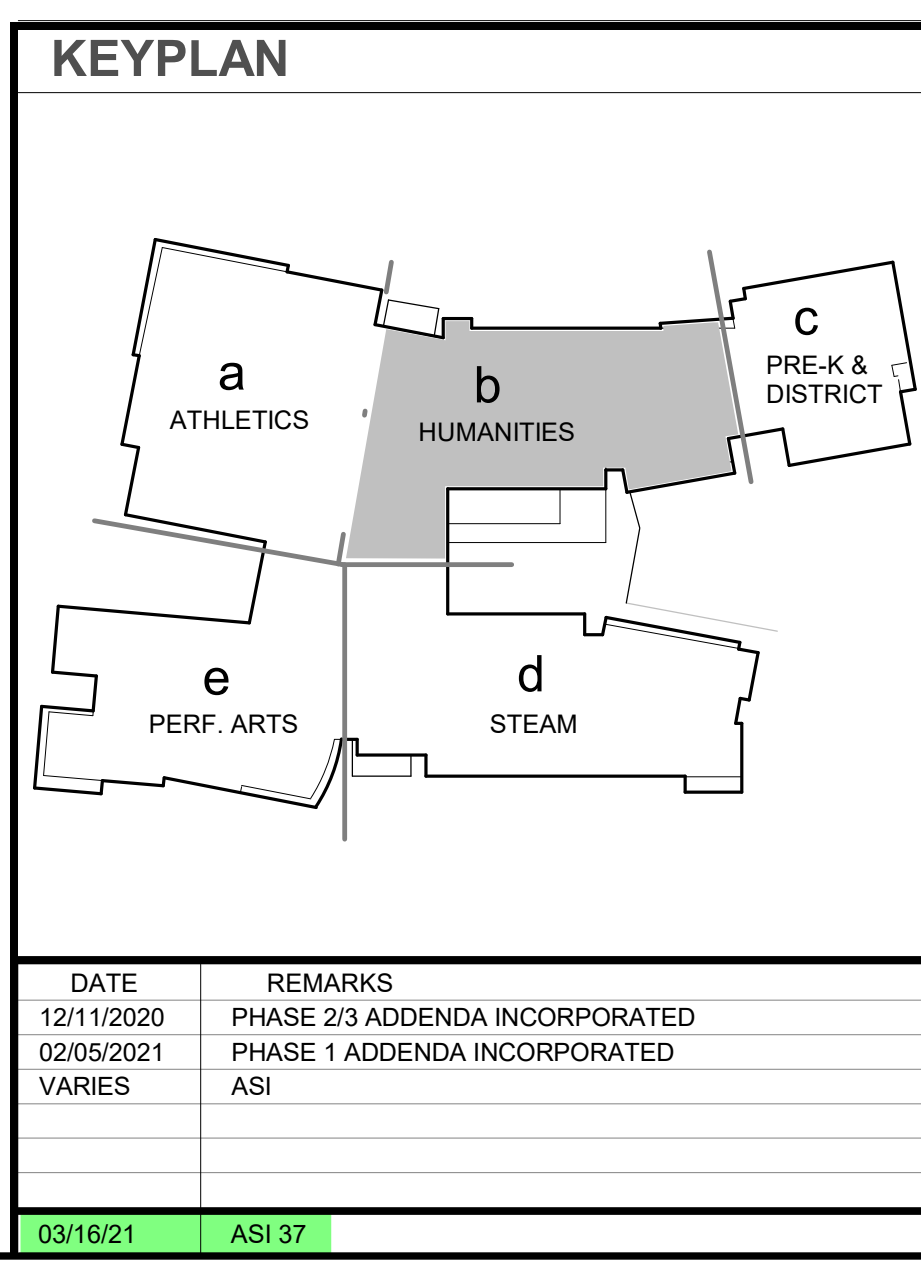


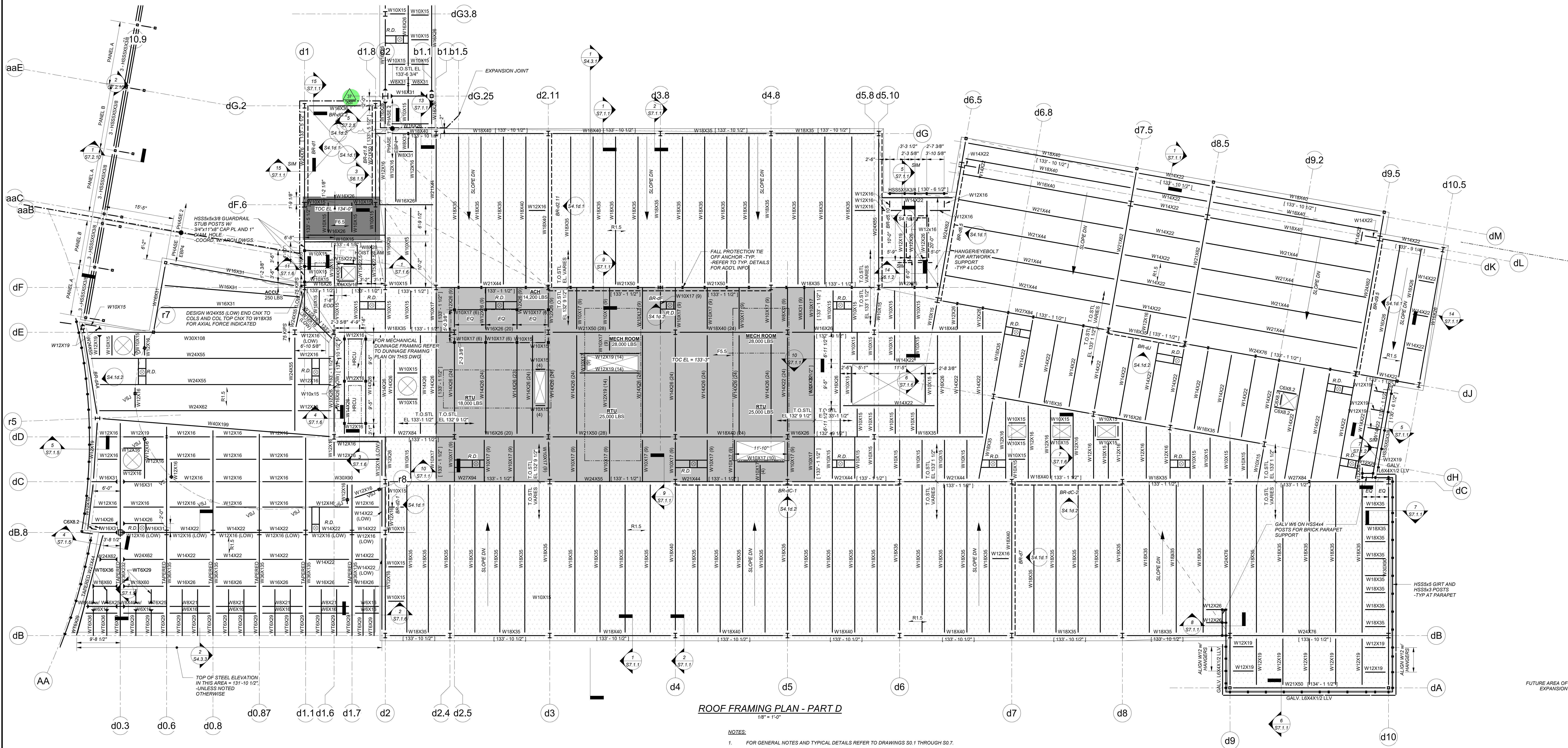
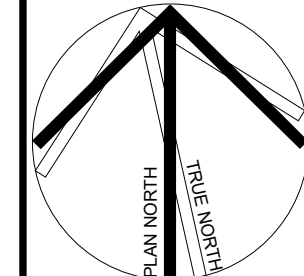
NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.7.
- REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
- FIFTH FLOOR TOP OF STEEL ELEVATION = 118'-9 1/2". UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
- COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
- F6.5 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- F6.0 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- F3.5 INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2.9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 5 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- R1.5 INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 1 1/2" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.
- (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
- INDICATES A FULL CAPACITY MOMENT CONNECTION. INDICATES A TORSION CONNECTION.
- BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a.1 THRU S4.1e.
- ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
- COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS, VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
- R.D. INDICATES THE APPROXIMATE LOCATION OF A ROOF DRAIN. COORDINATE LOCATIONS WITH ARCH DWGS. SEE DETAILS S31 AND S32 ON S0.7 FOR STEEL FRAME TO BE INSTALLED AT EACH ROOF DRAIN LOCATION.
- INDICATES A 6" DEPRESSION FOR RADIANT HEAT TOPPING SLAB. TOPPING SLAB SHALL BE REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. OVER PEX TUBING AT MID DEPTH ON 2" OF RIGID INSULATION OVER THE BASE STRUCTURAL SLAB. COORDINATE RADIANT HEAT LOCATIONS WITH ARCHITECTURAL AND MEP DRAWINGS.
- INDICATES A DEPRESSION. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH AND EXTENTS. COORDINATE WITH FLOORING MANUFACTURER.
- INDICATES A ROOF AREA.
- INDICATES STEEL WITH INTUMESCENT PAINT.
- INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.).
- INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.
- COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.



- NOTES:
- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.8
 - REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
 - ROOF TOP OF STEEL ELEVATION = 133'-10 1/2" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
 - COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
 - F5.5- INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2 9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
 - F5.5- INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6x6-W2 9xW2.9 W.W.F. SUPPORTED WITH SLAB BOLSTERS AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 6 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
 - R1.5- INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 1 1/2" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.
 - (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5' LONG (TYP.) AT 8" SLAB USE 4) HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
 - INDICATES A FULL CAPACITY MOMENT CONNECTION. INDICATES A TORSION CONNECTION.
 - BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a.1 THRU S4.1e.
 - ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
 - SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
 - COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS, VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
 - R.D. INDICATES THE APPROXIMATE LOCATION OF A ROOF DRAIN. COORDINATE LOCATIONS WITH ARCH DWGS. SEE DETAILS S29 AND S30 ON S0.6 FOR STEEL FRAME TO BE INSTALLED AT EACH ROOF DRAIN LOCATION.
 - "D.B" INDICATES 2-#5 DRAG BARS IN CONCRETE SLAB. PROVIDE ONE BAR ON EACH SIDE AT INTERIOR BR-X BRACING AND BOTH BARS ON SAME SIDE WHERE BR-X BRACING IS NEAR THE EDGE OF SLAB. EXTEND BARS ONE BAY (MIN) EACH SIDE OF BRACE BAY.
 - # INDICATES STEEL WITH INTUMESCENT PAINT. * INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.). + INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT. COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.




ROOF FRAMING PLAN - PART D

1/8" = 1'-0"

NOTES:

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.7.
- REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
- ROOF TOP OF STEEL ELEVATION = 133'-10 1/2" UNLESS NOTED OTHERWISE ON PLAN OR IN SECTIONS.
- COLUMN SIZES ARE SHOWN ON PLANS AT THEIR LOWEST LEVELS OR AT SPLICES. REFER TO FOUNDATION PLANS AND FRAMING PLANS.
- F5.9. INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 4 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6# W2 9xW2 9 W/F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 8 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- F5.5. INDICATES SPAN DIRECTION OF FLOOR CONSTRUCTION CONSISTING OF 3 1/2" MINIMUM NORMAL WEIGHT CONCRETE TOPPING WITH 6# W2 9xW2 9 W/F. SUPPORTED WITH SLAB BOLSTERS, AND 2" DEEP x 18 GAUGE GALVANIZED COMPOSITE METAL FLOOR DECK. MINIMUM TOTAL THICKNESS = 5 1/2" TOTAL SLAB THICKNESS. POUR SLABS LEVEL, ACCOUNTING FOR ADDITIONAL CONCRETE DUE TO STRUCTURAL FRAMING AND DECK DEFLECTIONS (AVERAGE OF 3/4" OVER THE ENTIRE FLOOR AREA).
- R1.5. INDICATES SPAN DIRECTION OF ROOF CONSTRUCTION CONSISTING OF 1 1/2" DEEP x 18 GAUGE GALVANIZED WIDE RIB METAL ROOF DECK.
- (XX) INDICATES THE NUMBER OF EQUALLY SPACED 3/4" DIA. x 5" LONG (TYP. AT 5.5" SLAB USE 4") HEADED SHEAR CONNECTOR STUDS WELDED TO THE CENTER OF THE TOP FLANGE OF THE BEAM OR GIRDER. PROVIDE A MINIMUM OF ONE STUD PER FOOT LENGTH AT ALL BEAMS SUPPORTING COMPOSITE FLOOR DECK.
- INDICATES A FULL CAPACITY MOMENT CONNECTION. INDICATES A TORSION CONNECTION.
- BR-X INDICATES A BRACED FRAME IN THE LATERAL LOAD RESISTING SYSTEM. FOR ELEVATIONS REFER TO DRAWINGS S4.1a THRU S4.1e.
- ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT OF STEEL FIREPROOFING.
- COORDINATE AND VERIFY THE SIZE, QUANTITY AND LOCATION OF ALL ROOF DRAINS, VENTS, DUCTS, SKYLIGHTS AND OTHER ROOF PENETRATIONS WITH THE ARCHITECTURAL AND MEP DRAWINGS AND PROVIDE STEEL FRAMES AS REQUIRED PER THE TYPICAL DETAILS. ALL REQUIRED PENETRATIONS MIGHT NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
- R.D. INDICATES THE APPROXIMATE LOCATION OF A ROOF DRAIN. COORDINATE LOCATIONS WITH ARCH DWGS. SEE DETAILS S29 AND S320N S0.6 FOR STEEL FRAME TO BE INSTALLED AT EACH ROOF DRAIN LOCATION.
- "B" INDICATES 2#4 DRAG BARS IN CONCRETE SLAB. PROVIDE ONE BAR ON EACH SIDE AT INTERIOR BR-X BRACING AND BOTH BARS ON SAME SIDE WHERE BR-X BRACING IS NEAR THE EDGE OF SLAB. EXTEND BARS ONE BAY (MIN) EACH SIDE OF BRACE BAY.
- INDICATES STEEL WITH INTUMESCENT PAINT.
* INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.).
+ INDICATES EXPOSED TO VIEW STRUCTURAL STEEL (E.V.S.S.) WITH INTUMESCENT PAINT.
COORDINATE LOCATIONS OF E.V.S.S. WITH ARCHITECTURAL DRAWINGS. REFER TO SPECIFICATIONS FOR SURFACE PREPARATION AND FINISH REQUIREMENTS.

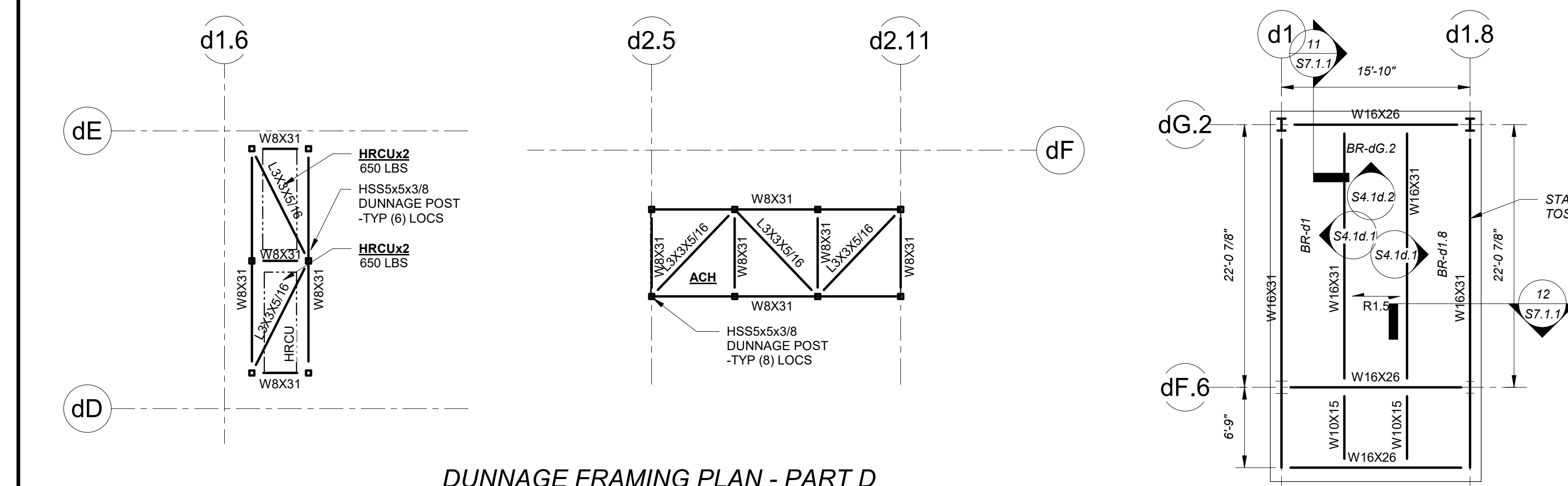
DUNNAGE FRAMING PLAN - PART D

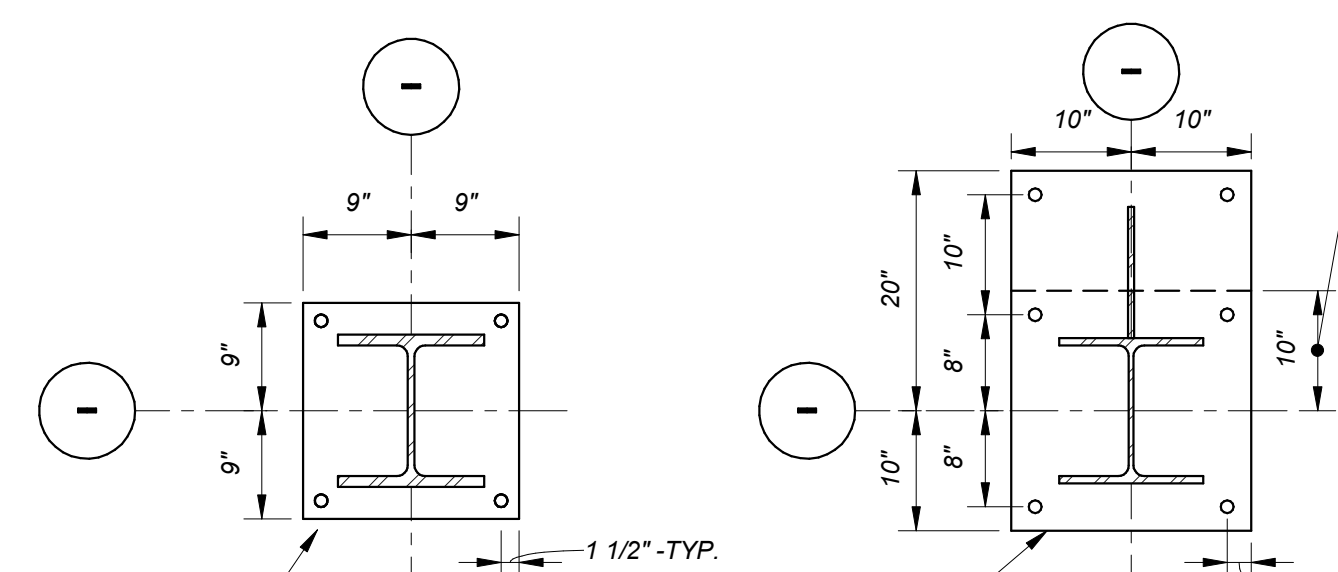
1/8" = 1'-0"

- FOR GENERAL NOTES AND TYPICAL DETAILS REFER TO DRAWINGS S0.1 THROUGH S0.8.
- REFER TO S1.0 AND ARCHITECTURAL DRAWINGS FOR GRID DIMENSIONS.
- DUNNAGE TOP OF STEEL ELEVATION = 138'-4 1/2", UNLESS NOTED OTHERWISE.
- ALL EXTERIOR EXPOSED STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED.

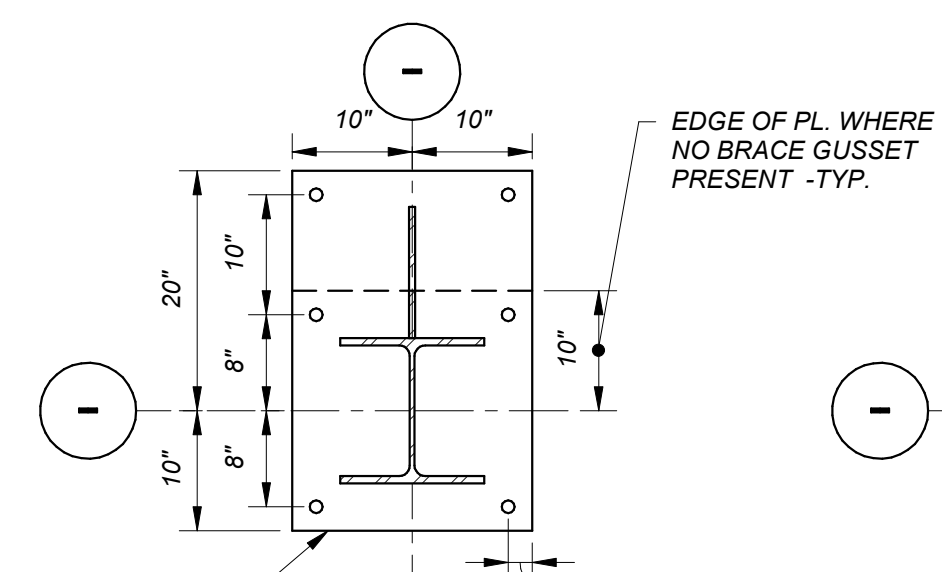
SOUTH STAIR ROOF FRAMING PLAN

1/8" = 1'-0"

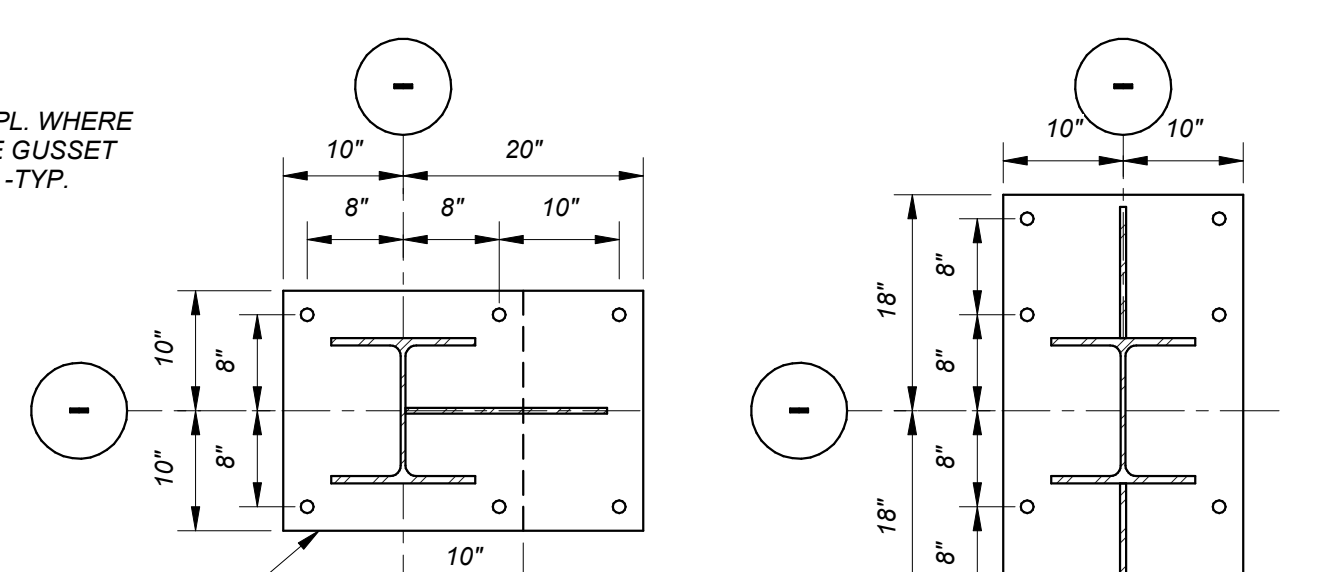




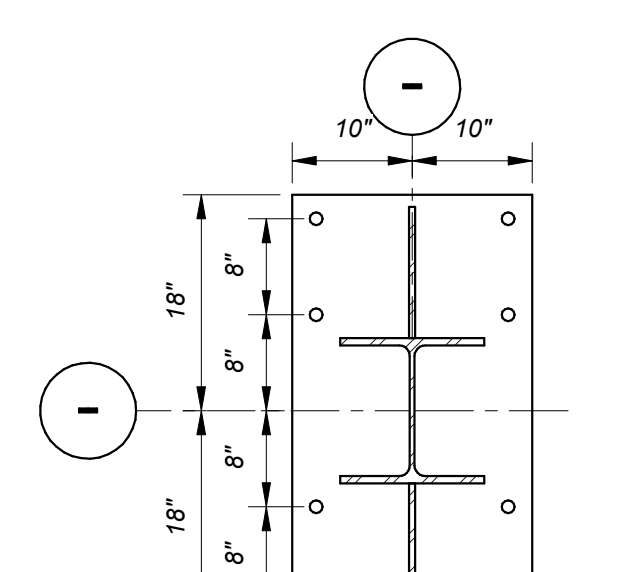
W10, W12
(4) AB-1
TYPE A



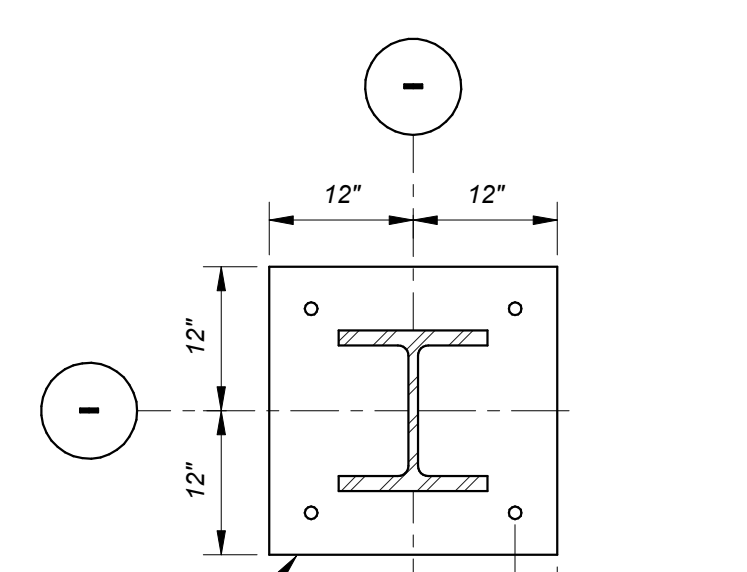
W12
(6) AB-2
TYPE A-BR-1



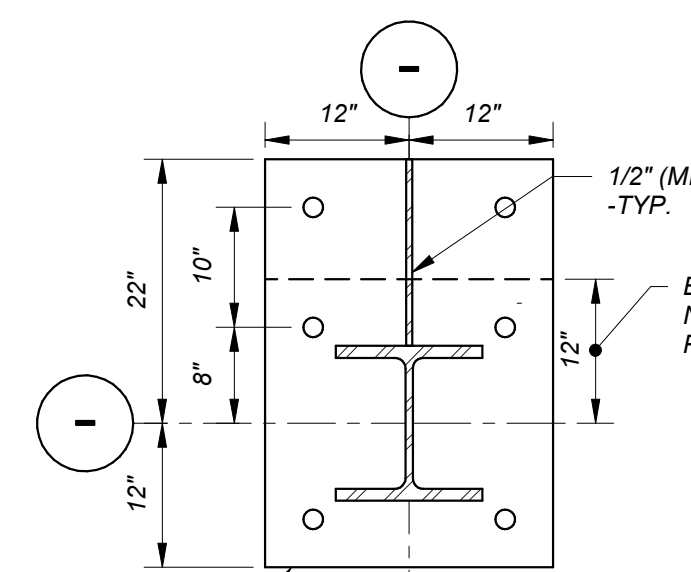
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TYPE A-BR-2



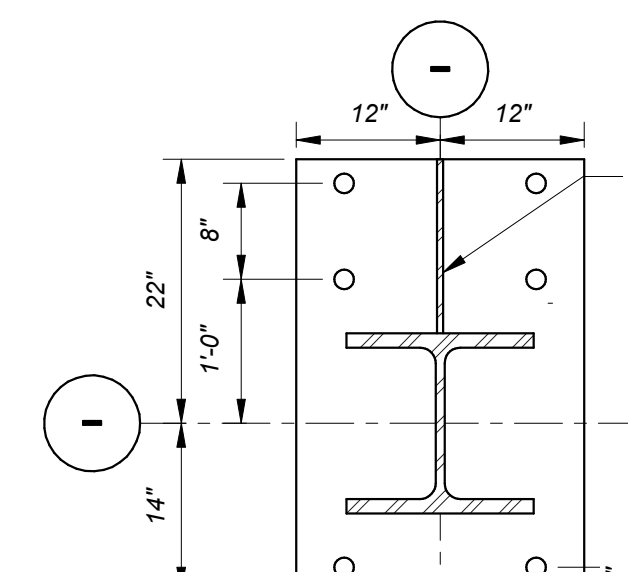
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(6) AB-2
TYPE A-BR-3



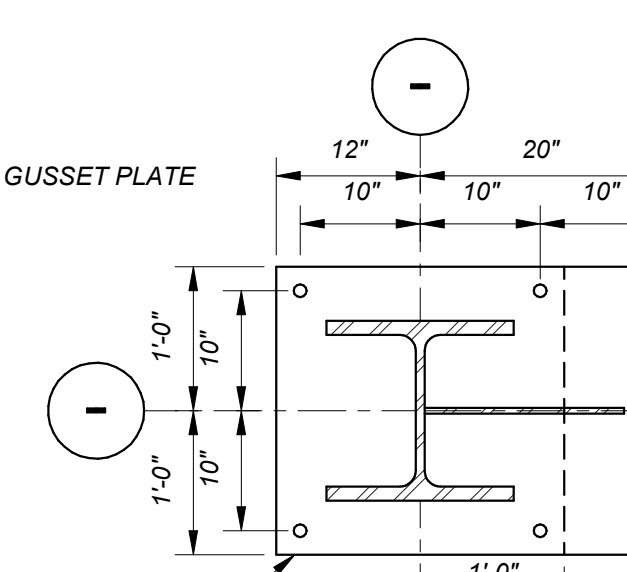
W12, W14
(4) AB-1
TYPE B



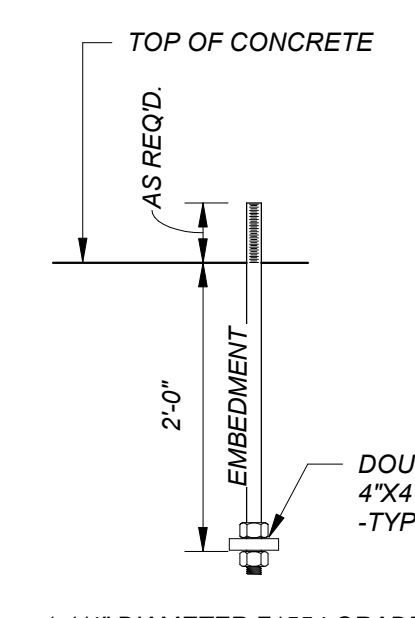
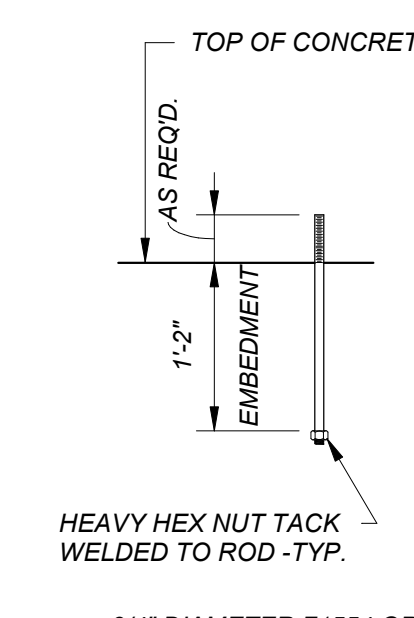
W12
(6) AB-2
TYPE B-BR-1



W14
(6) AB-2
TYPE B-BR-2



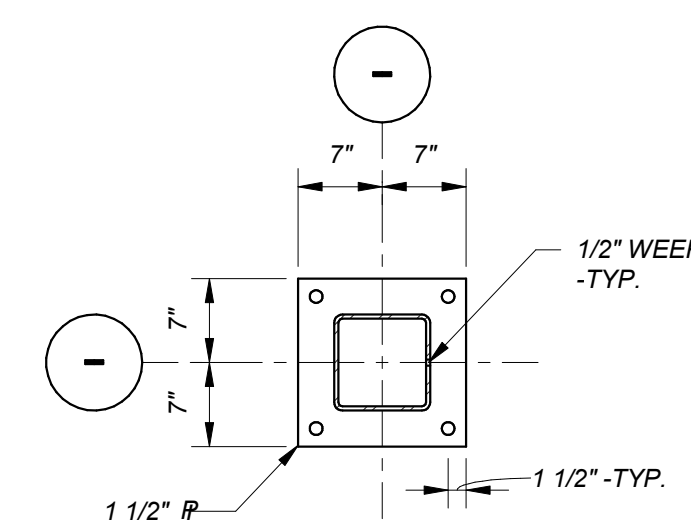
W14
(6) AB-2
TYPE B-BR-3



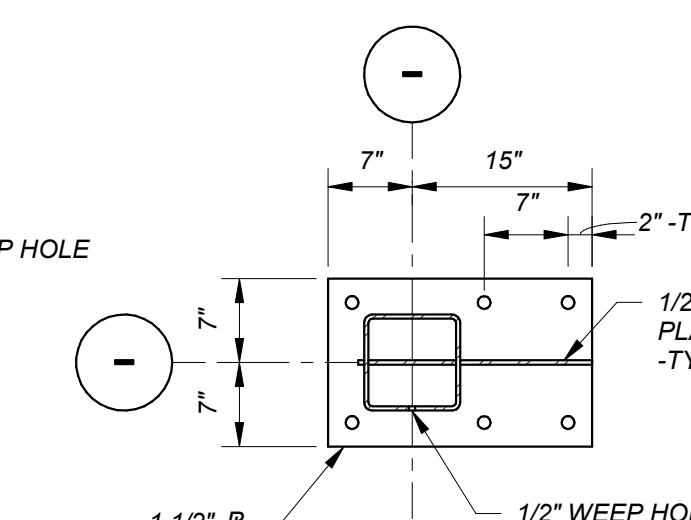
ANCHOR ROD DETAILS

NOTES

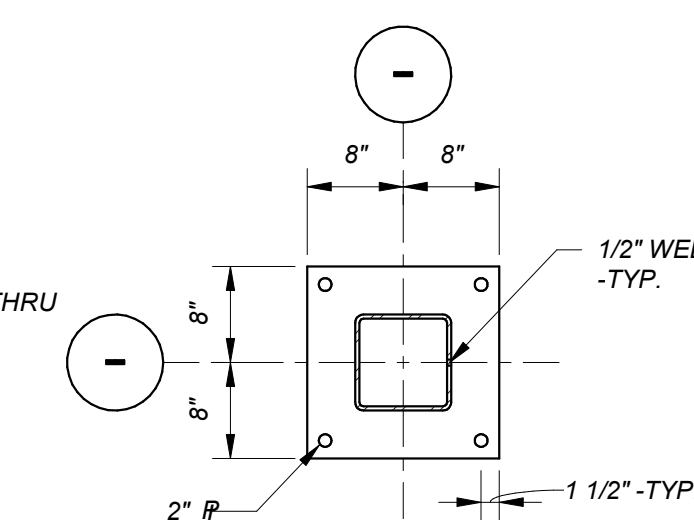
1. BASE PLATE TYPE NOTED ON PLANS AS BR-"X".
2. PROVIDE 1/4" LEVELING PLATE AND 3/4" NON-SHRINK GROUT UNDER ALL BASE PLATES.
3. PROVIDE 3/4"x1/4" EMBEDMENT F1554-36 ANCHOR RODS W/ TACK WELDED NUT AT ALL BASE PLATES UNLESS NOTED OTHERWISE.
4. PROVIDE 1 1/4"x2 1/4" EMBEDMENT F1554-105 ANCHOR RODS W/ DOUBLE NUT AND 4"x3/4" PLATE WASHER IN BETWEEN AT BRACE COLUMNS (NOTED ON PLANS AS BASE PLATE TYPE BR-"X" BR).
5. PROVIDE OVERSIZED HOLES AND 3"x3"x1/2" PLATE WASHERS UNDER NUTS ON TOP OF TYPE "X"-BR BASE PLATES. OVERSIZED HOLES TO BE GROUTED SOLID PRIOR TO INSTALLING TOP NUTS AND WASHERS AND PLATE WASHERS TO BE WELDED ALL AROUND TO BASE PLATES. TYPICAL AT BRACE COLUMNS.
6. REFER TO PLAN FOR ORIENTATION OF COLUMN.



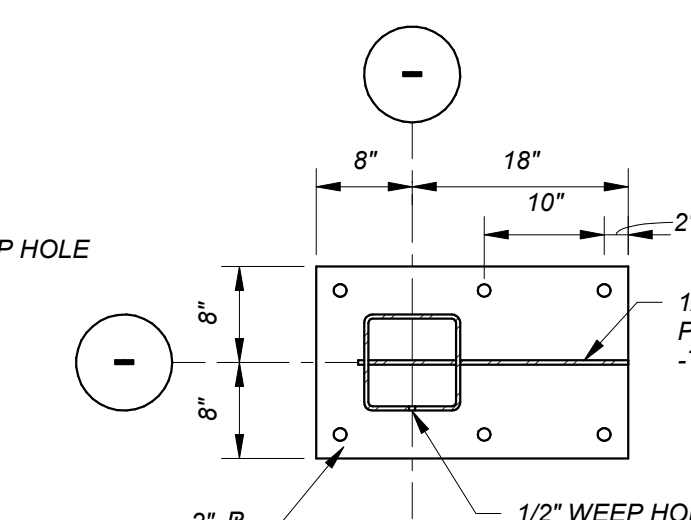
HSS4x4, HSS5x5, HSS6x6, HSS7x7
(4) AB-1
TYPE C



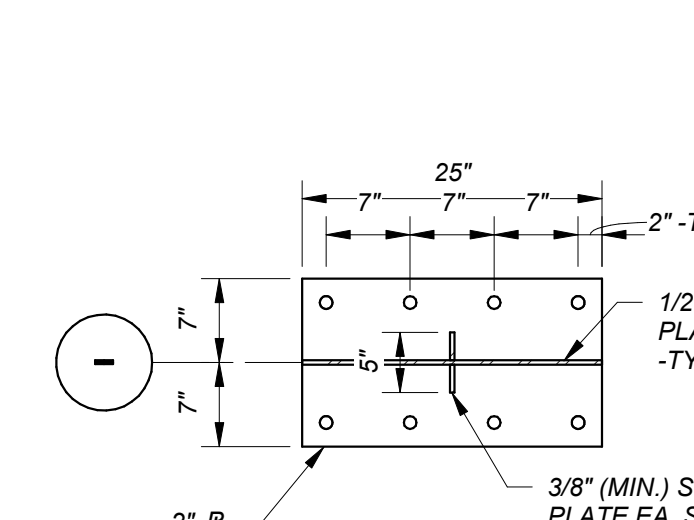
HSS5x5, HSS6x6, HSS7x7
(6) AB-2
TYPE C-BR



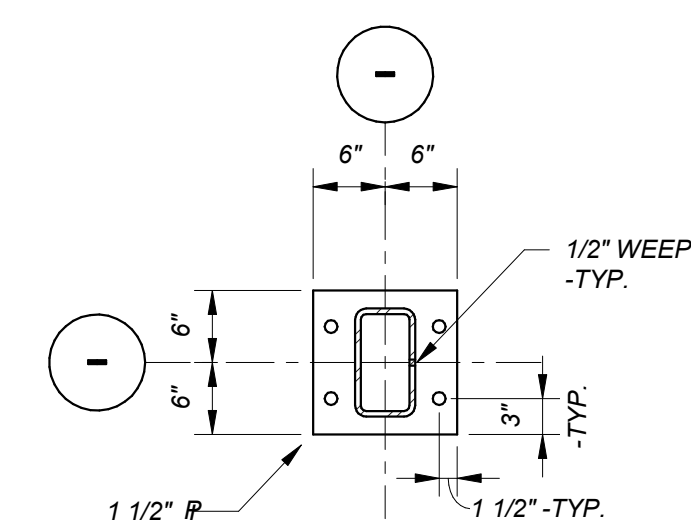
HSS8x8, HSS9x9
(4) AB-1
TYPE D



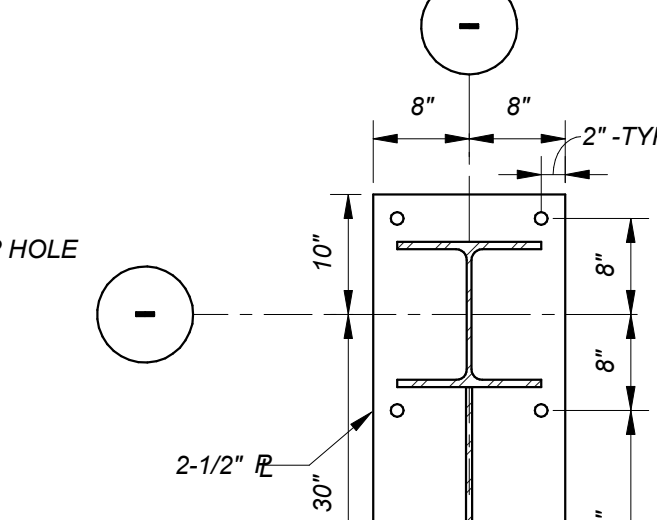
HSS8x8, HSS9x9
(6) AB-2
TYPE D-BR



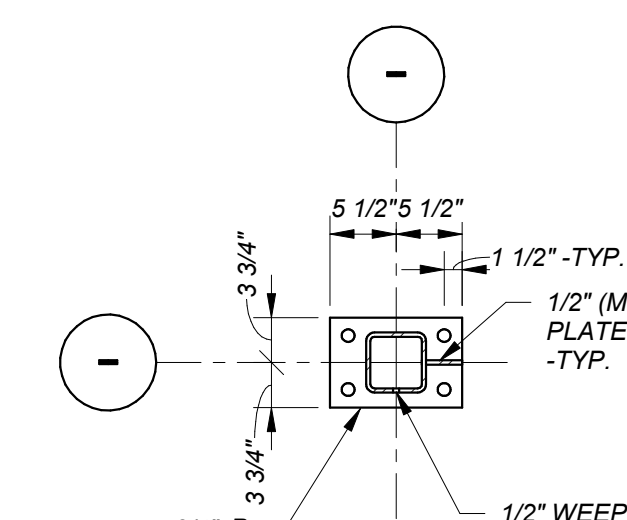
(8) AB-2
TYPE V-BR



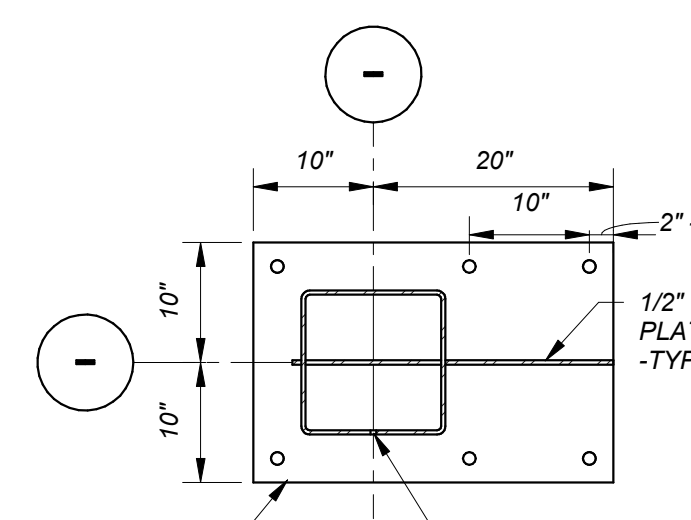
HSS9x5
(4) AB-1
TYPE E



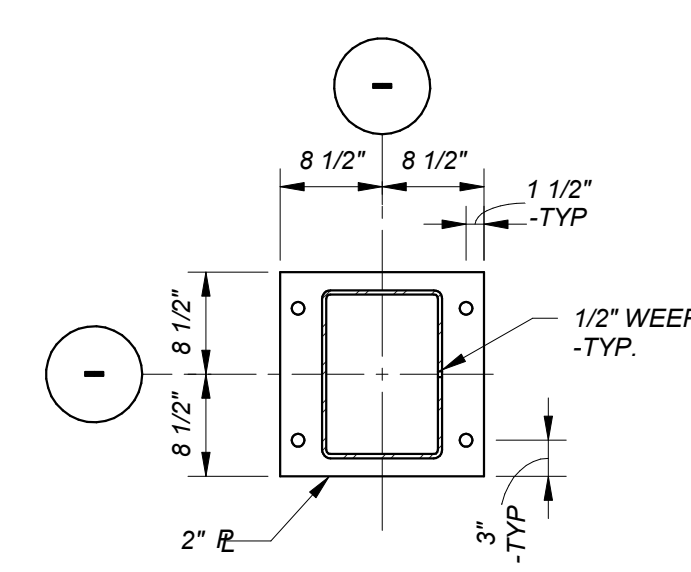
W12
(6) AB-1
TYPE F



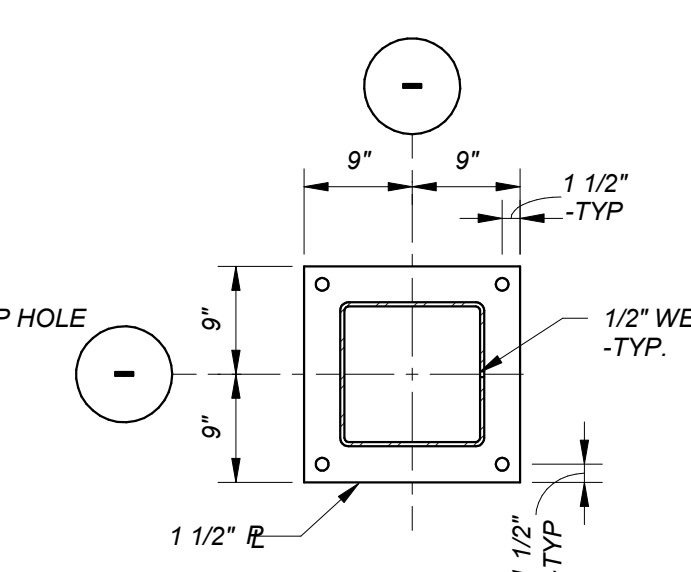
HSS9x5
(4) AB-1
TYPE G



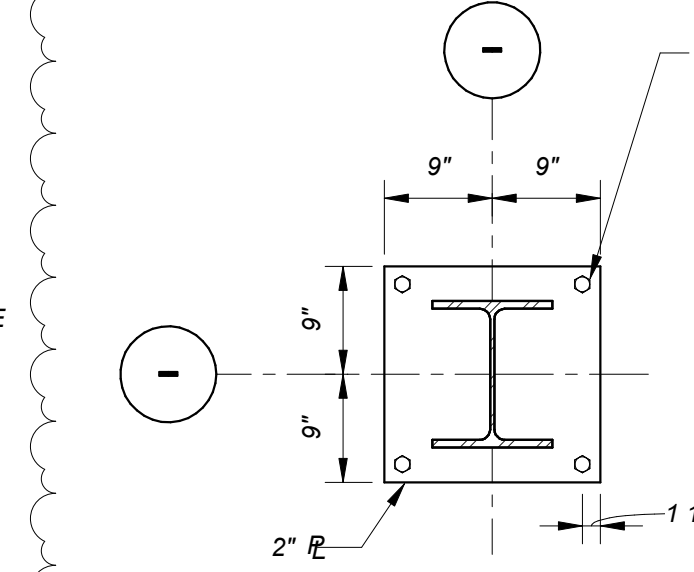
HSS12x12
(6) AB-2
TYPE H-BR



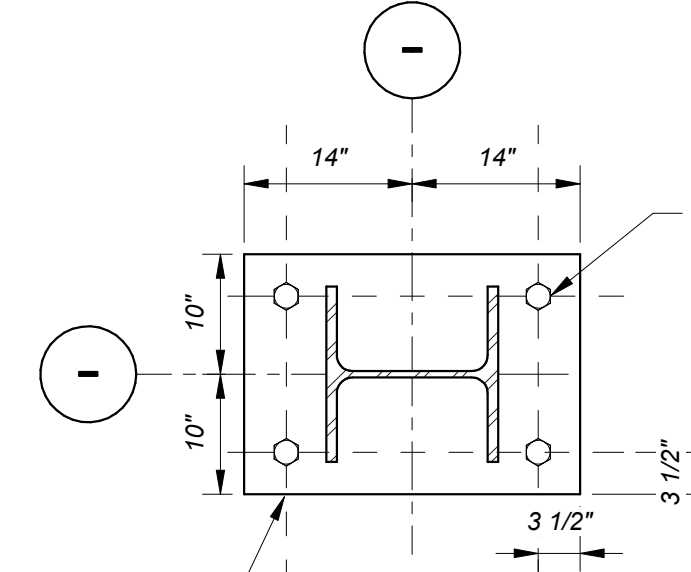
HSS14x10
(4) AB-1
TYPE I



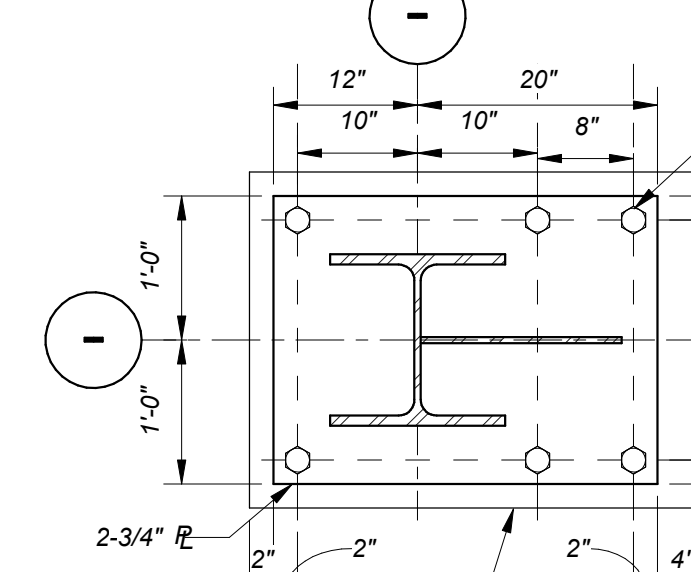
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TYPE J



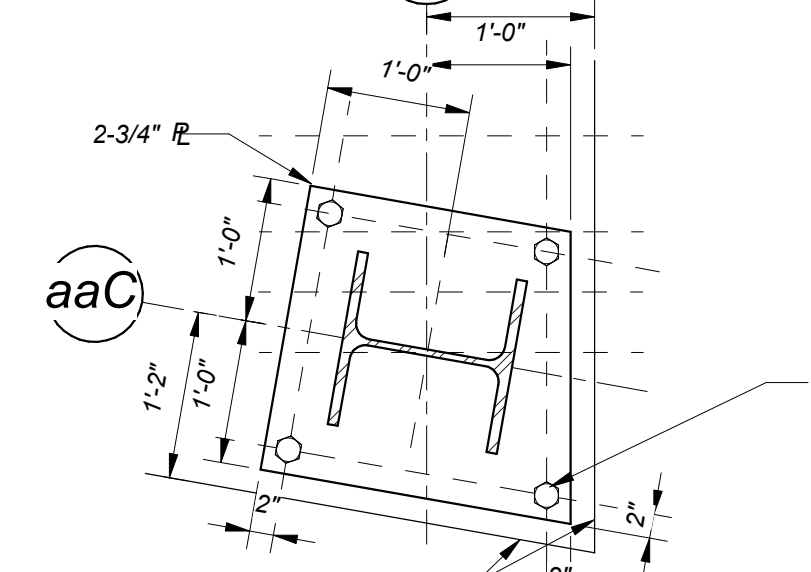
W10, W12
TYPE A-PI



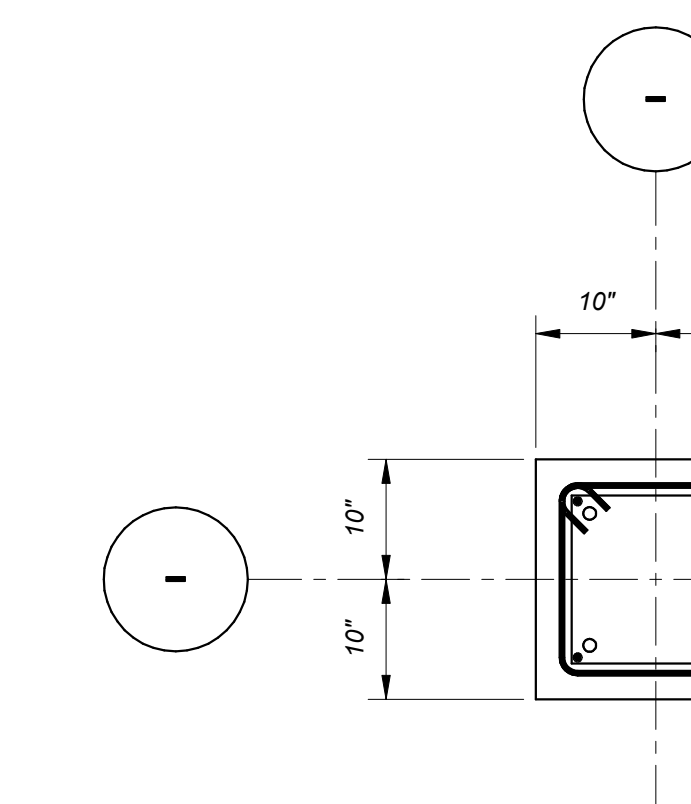
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TYPE B-PI



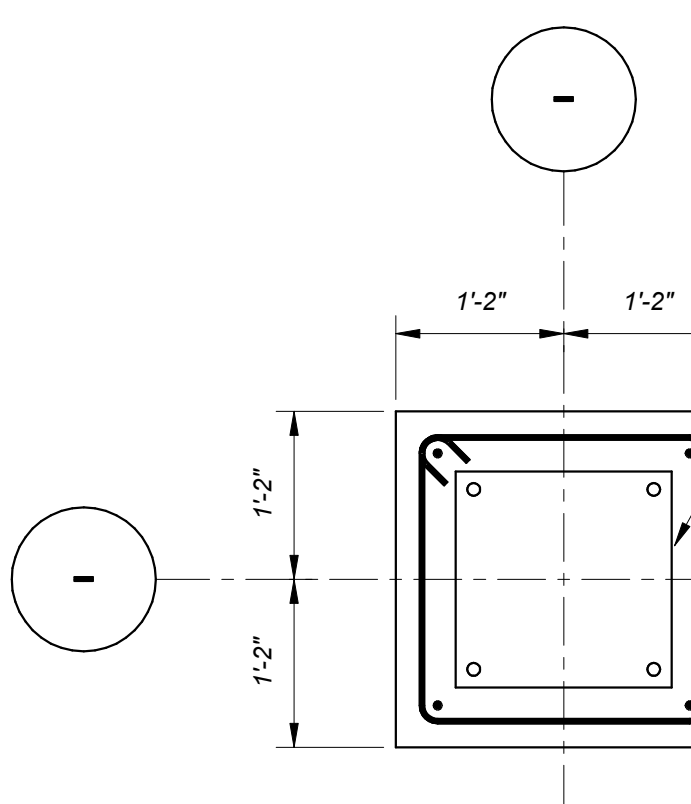
W14
TYPE B-BR-3-PI



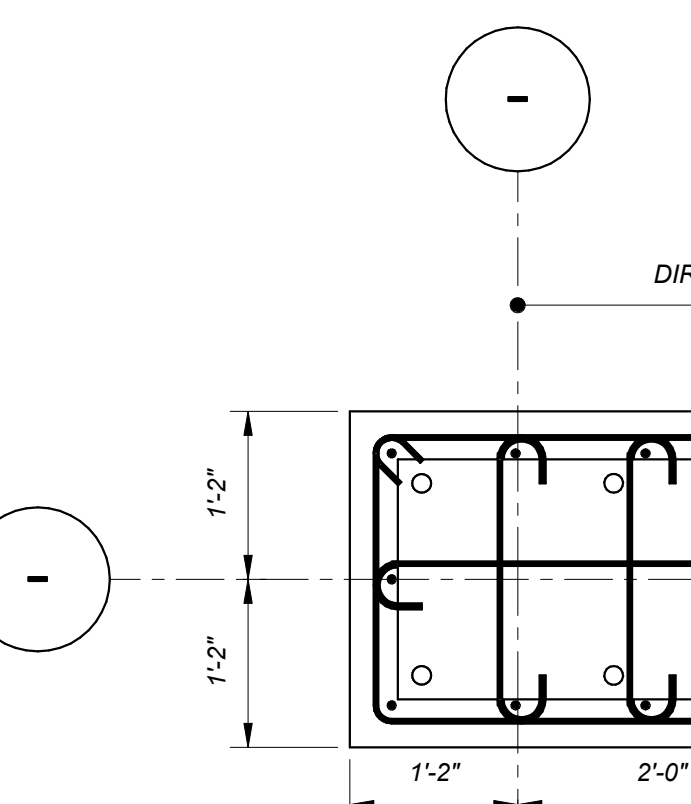
W14
TYPE B-BR-4-PI



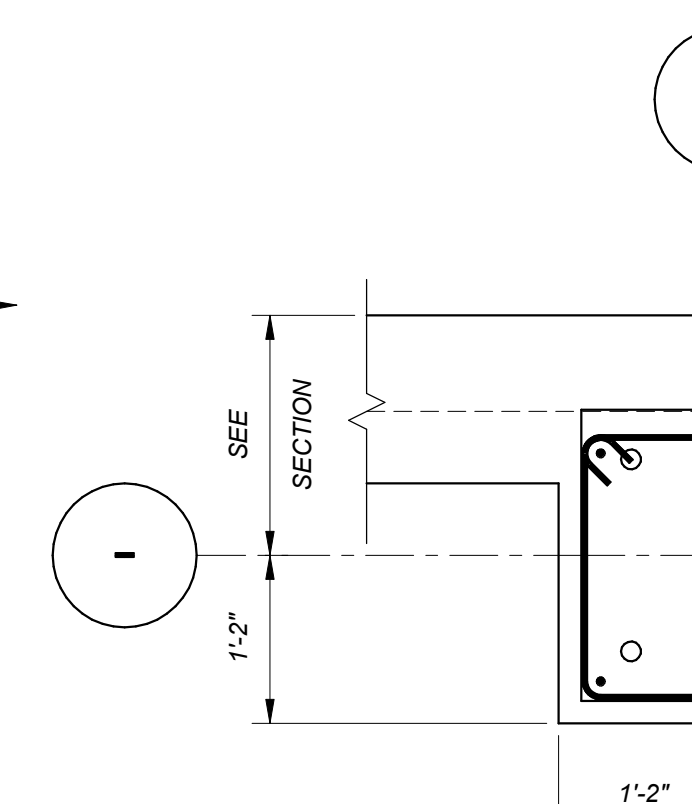
P1A



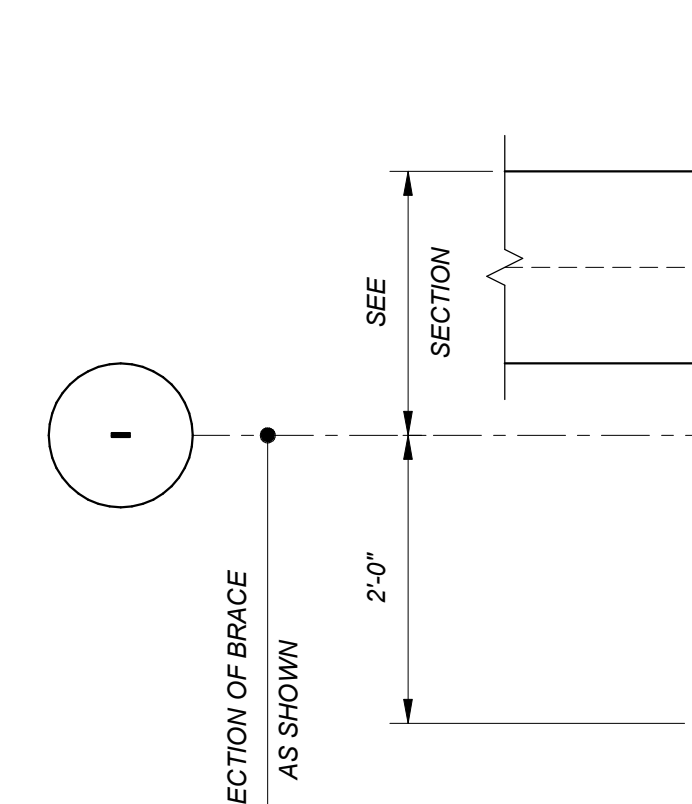
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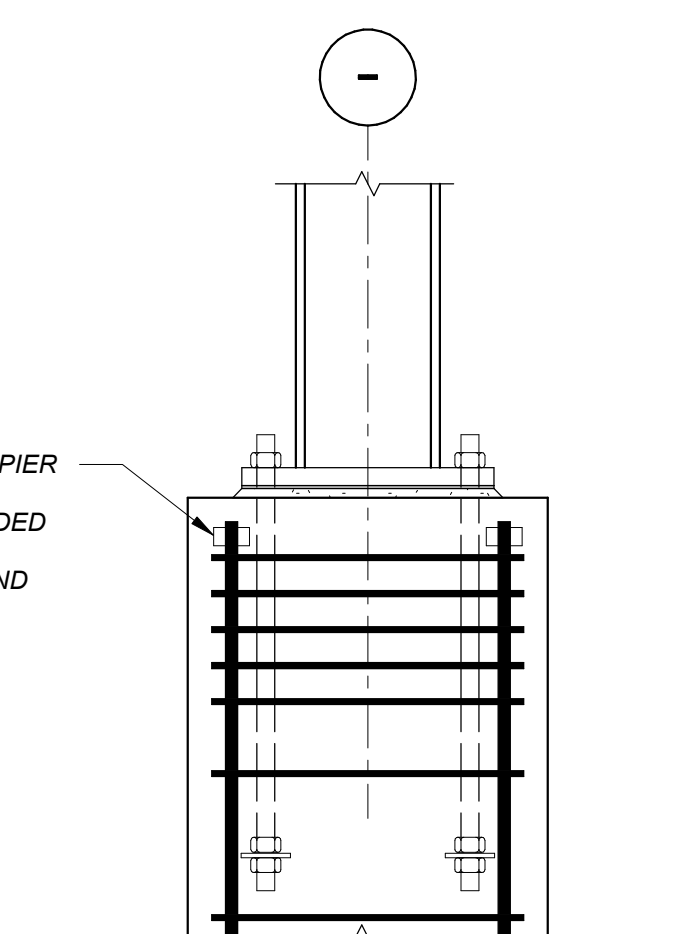
P1BR



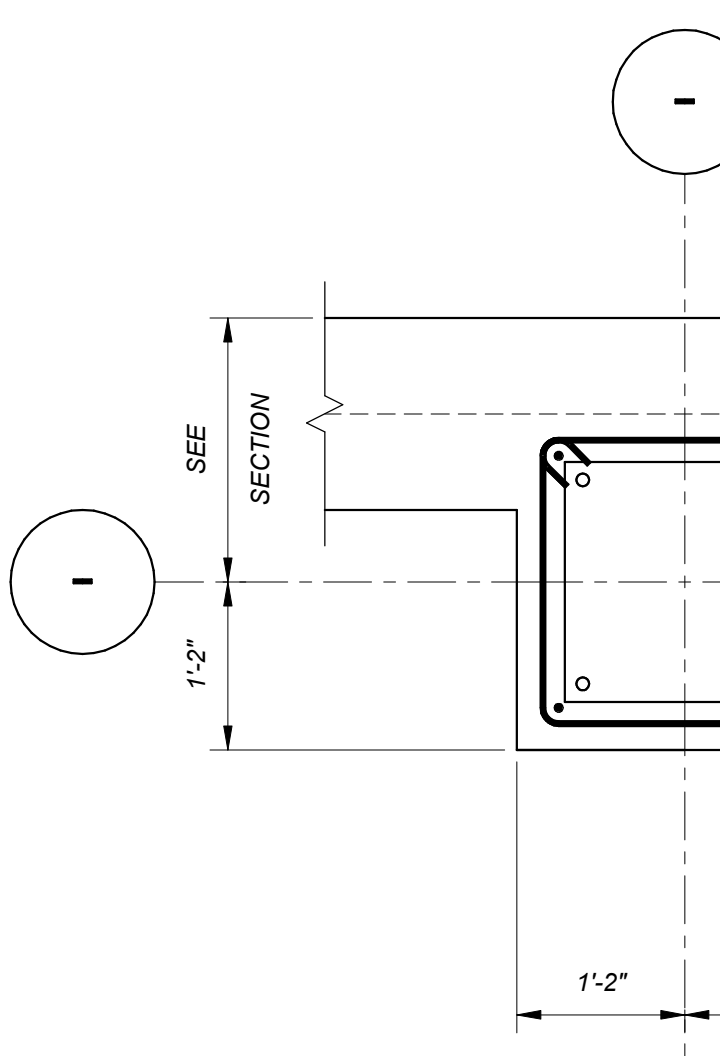
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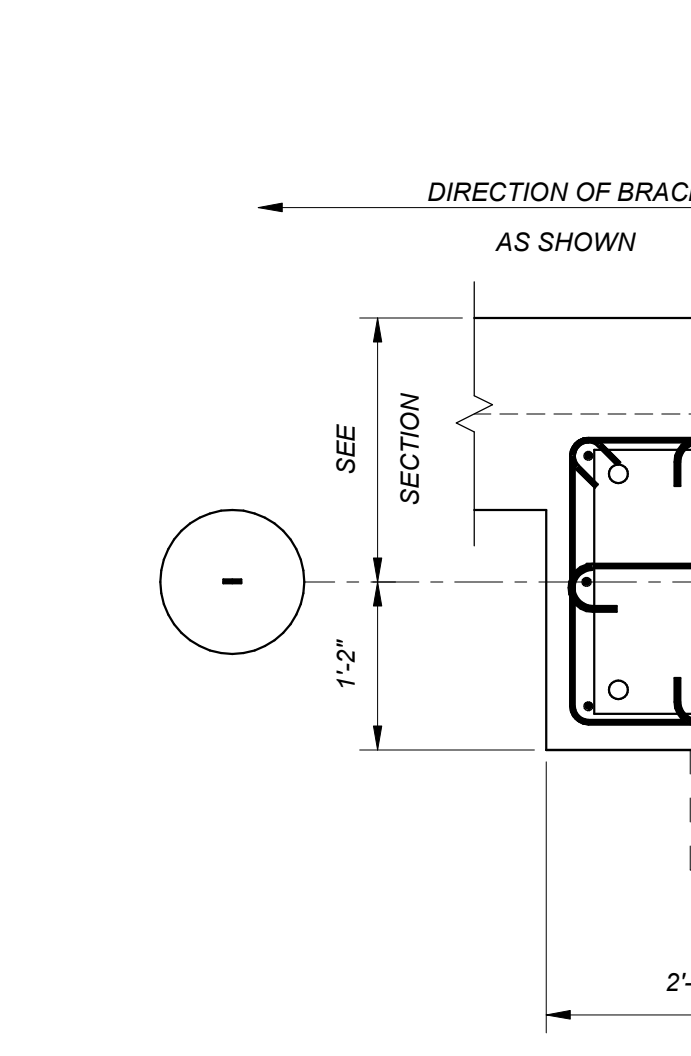
P2BR



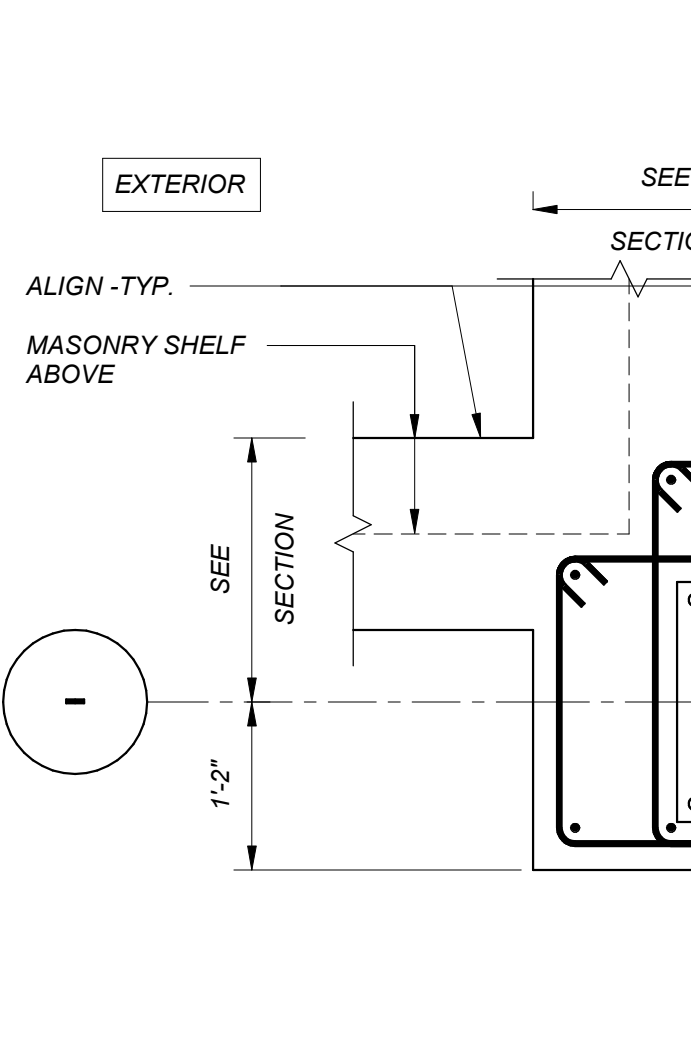
TYPICAL BRACE PIER DETAIL



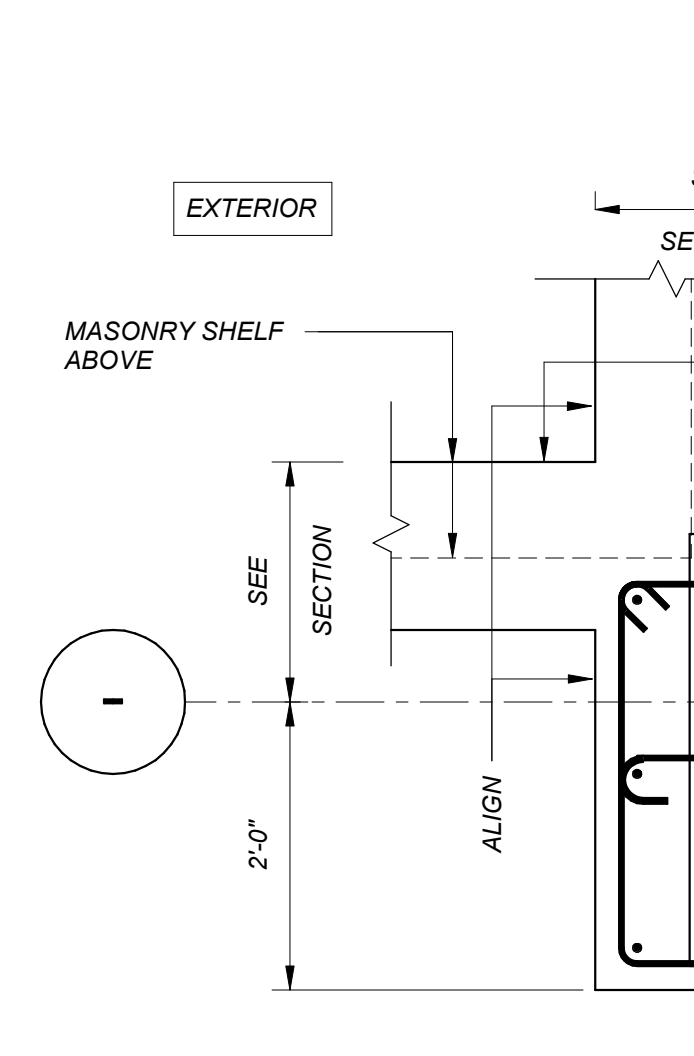
P3



P3BR



P4



P4BR

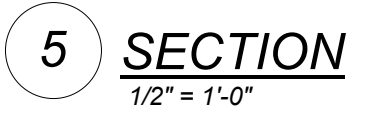
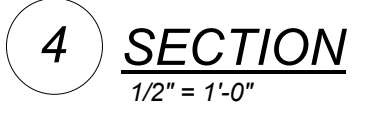
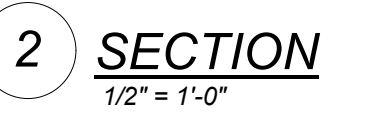
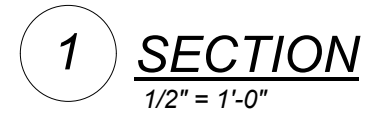
NOTES

1. AT PIERS/PLASTERS SUPPORTING BRACE COLUMNS (PIERS/PLASTERS WITH THE "BR" SUFFIX (EX. P-1BR)) ENLARGE THE 14" DIMENSION TO 24" IN THE DIRECTION OF THE BRACE TO SUPPORT THE ENLARGED BRACE COLUMN BASE PLATE - TYPICAL. COORDINATE PIER/PLASTER EXTENSIONS WITH PLANS AND BRACE ELEVATIONS.
2. AT THE TOP OF PIERS/PLASTERS, PROVIDE TIES WITH 4 SPACES @ 3" o.c. AND THE BALANCE AS INDICATED ABOVE (SEE SECTIONS) - TYPICAL.
3. WALL REINFORCING NOT SHOWN FOR CLARITY, CONTINUE THROUGH PLASTER.
4. REFER TO SECTIONS FOR WALL THICKNESS, REINFORCING, AND LOCATION FROM COLUMN GRID.

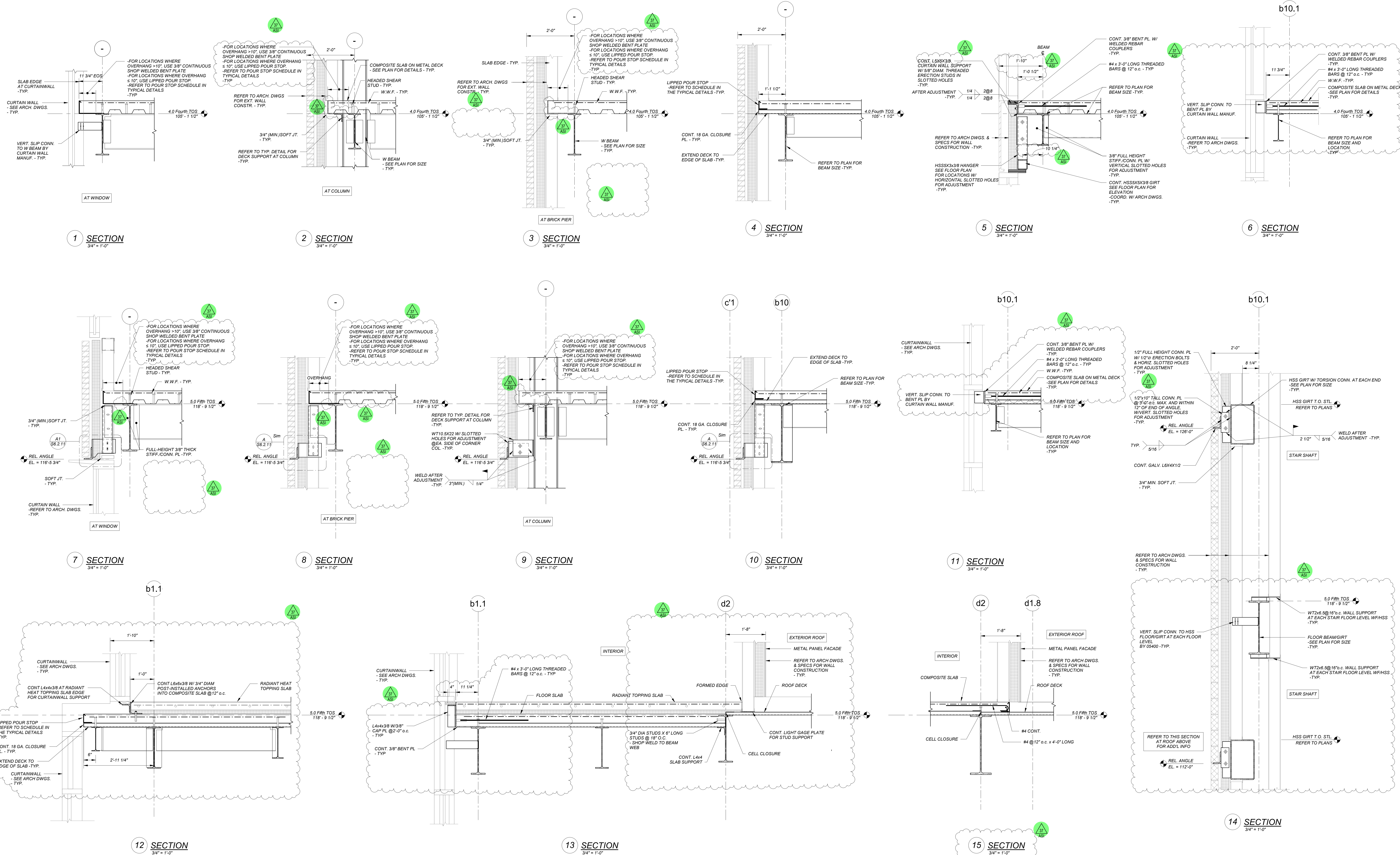
DATE	REMARKS
02/05/2021	PHASE 1 ADDENDA INCORPORATED
VARIES	ASI
03/16/21	ASI 37



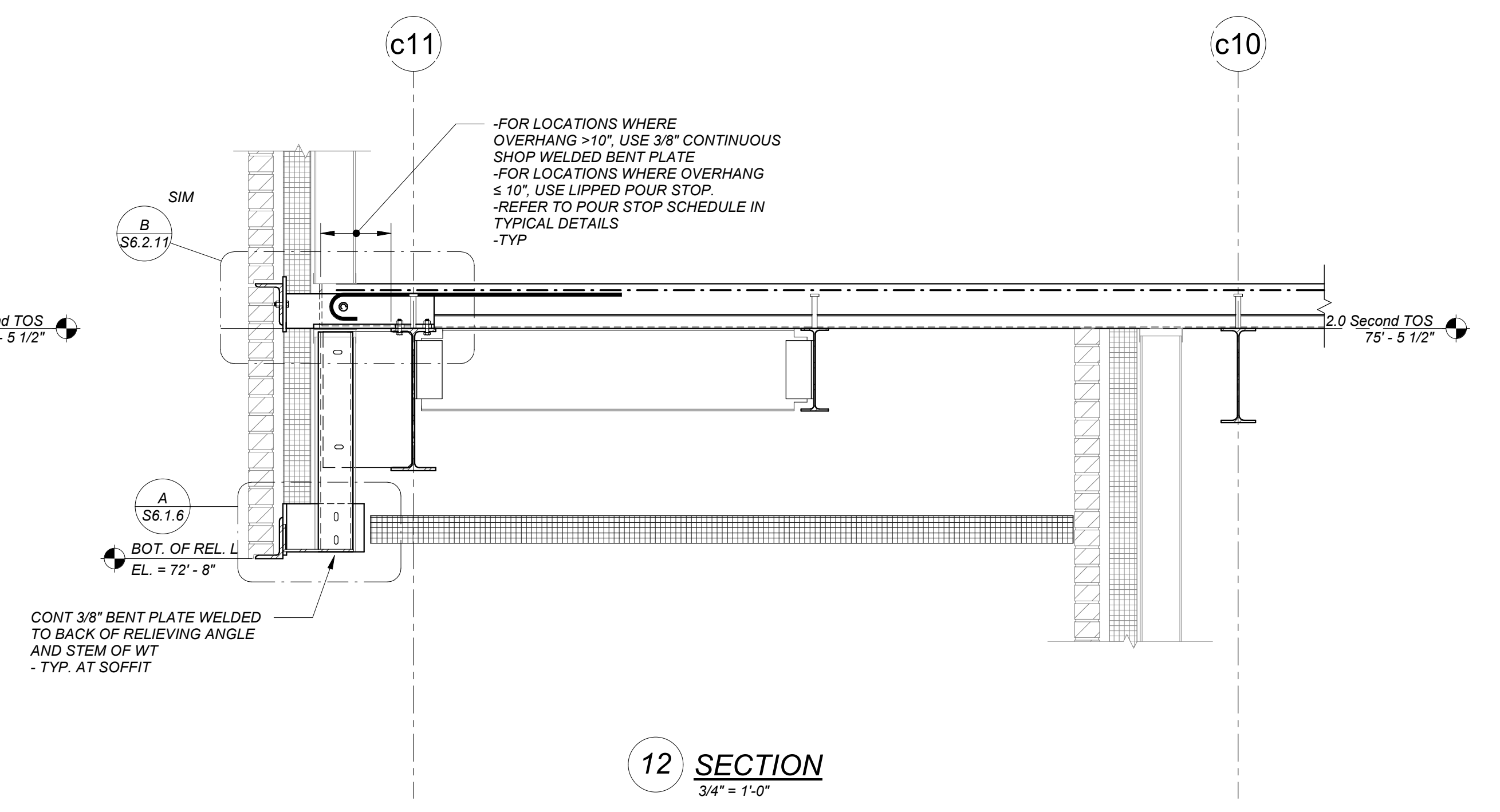
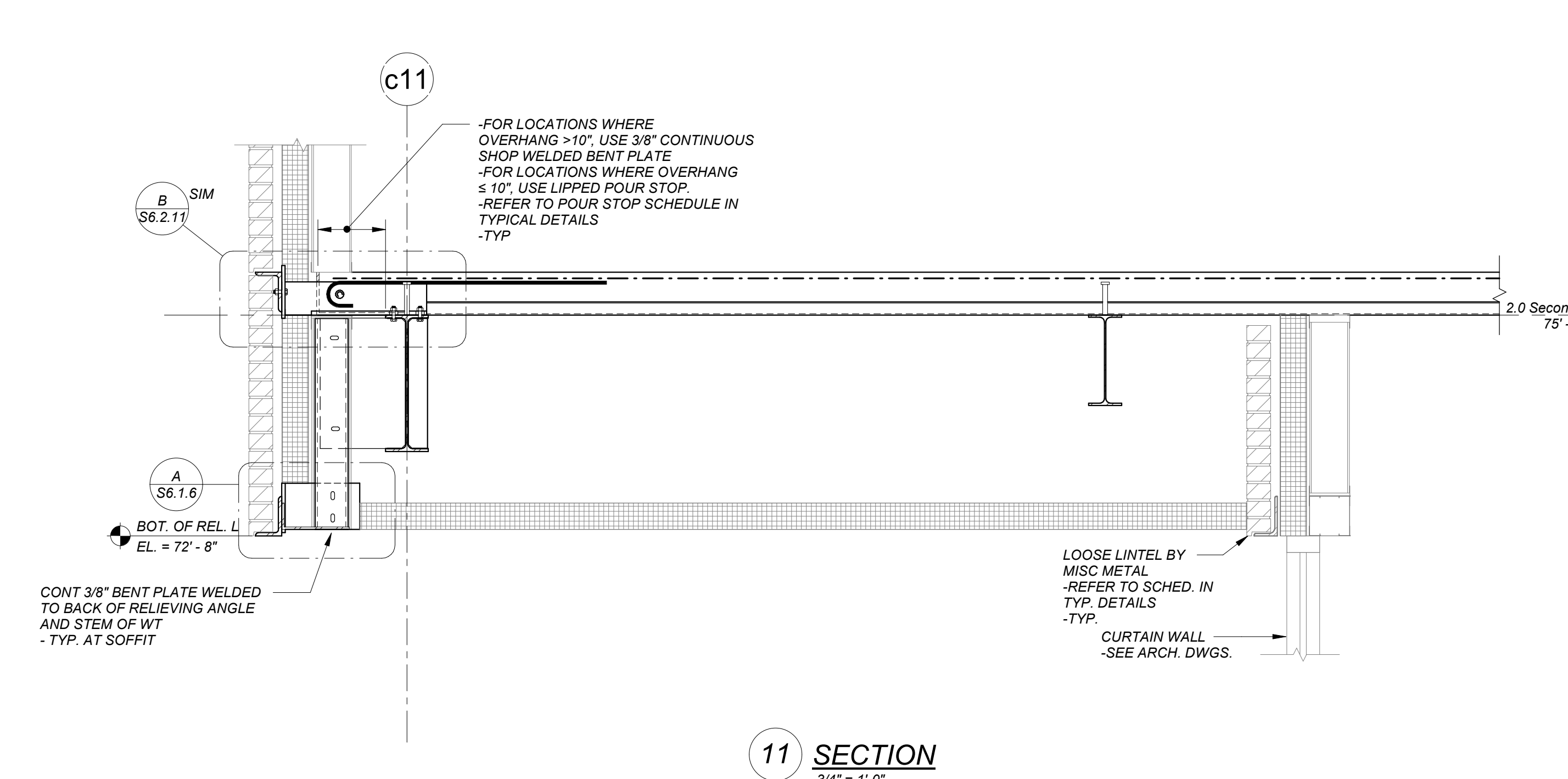
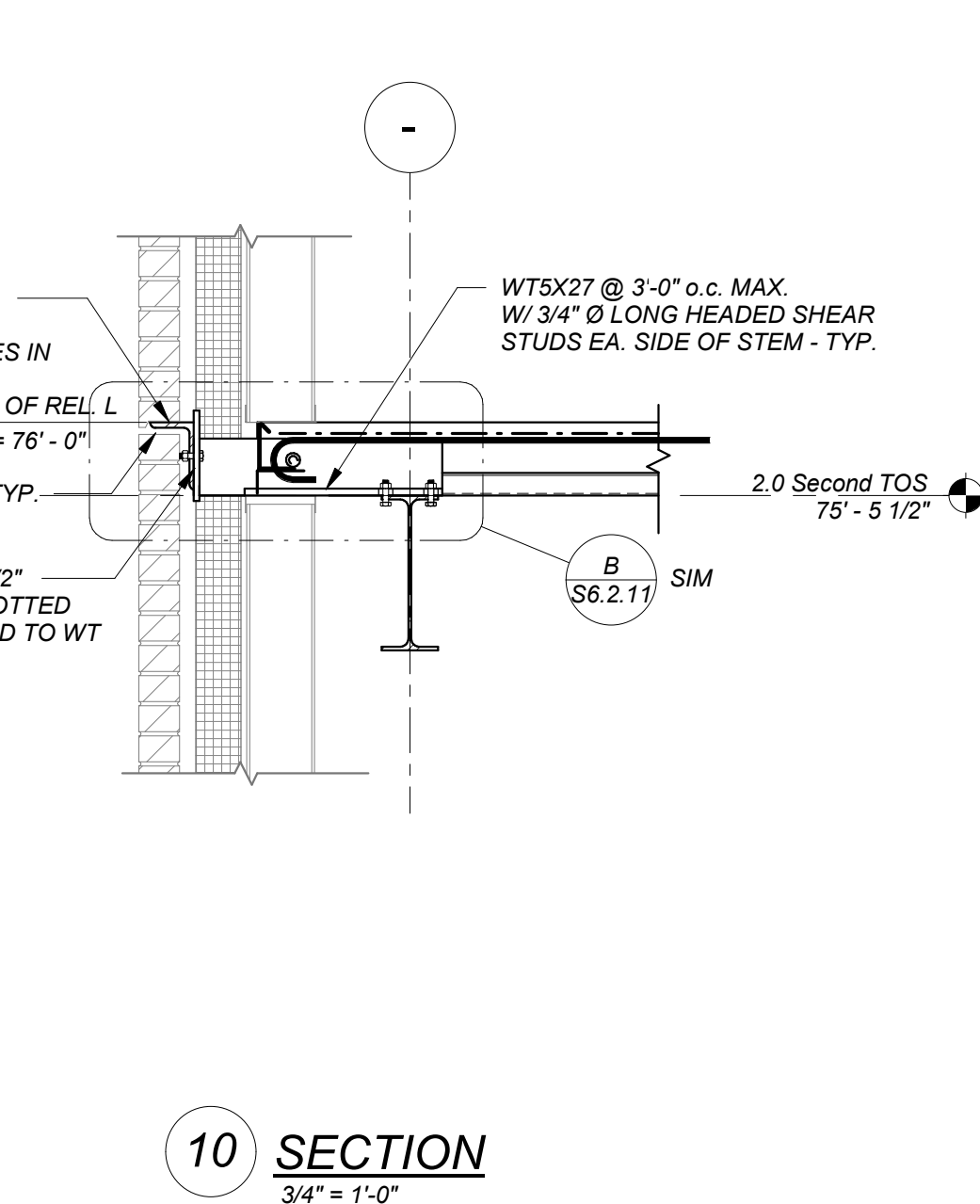
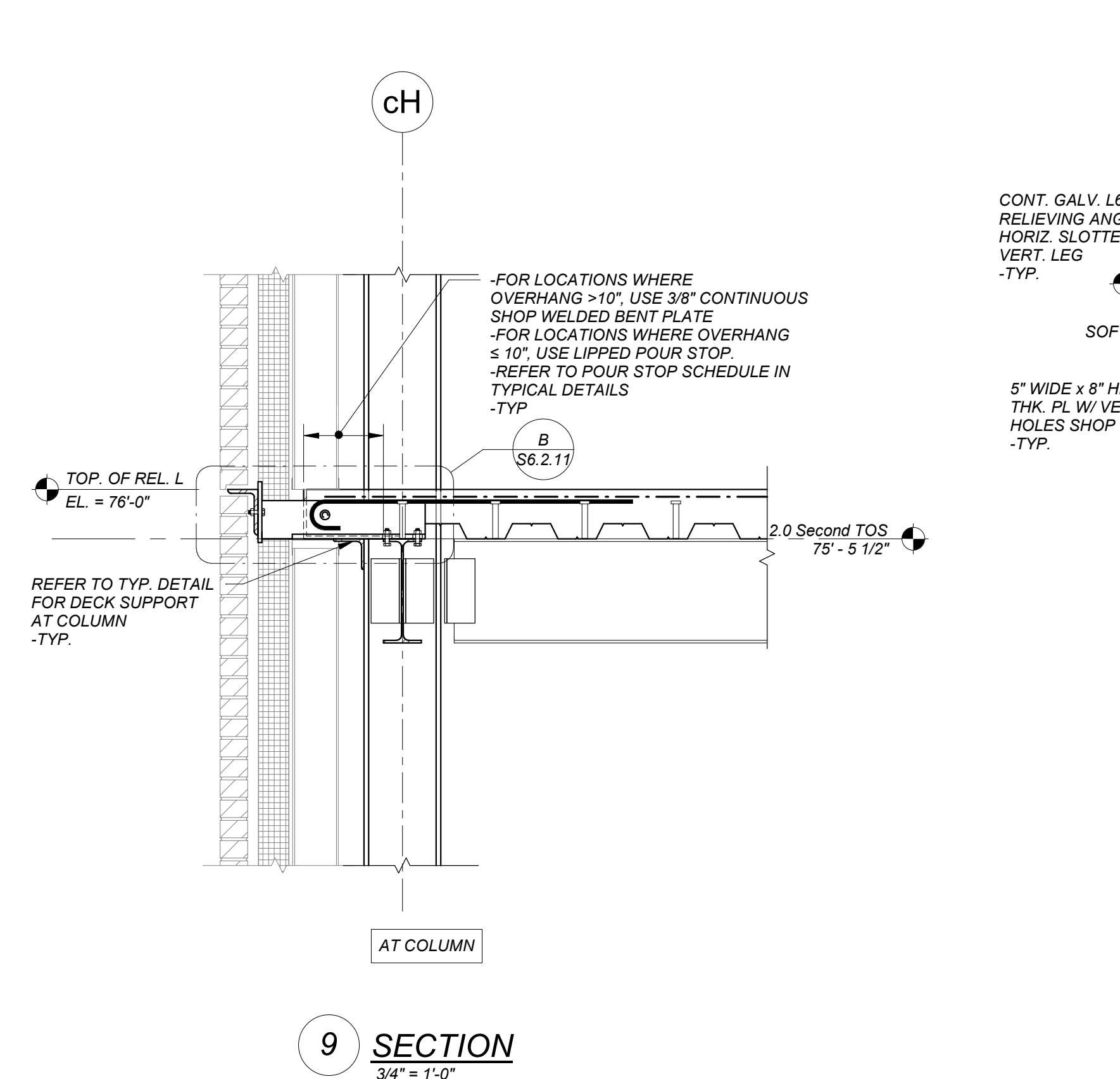
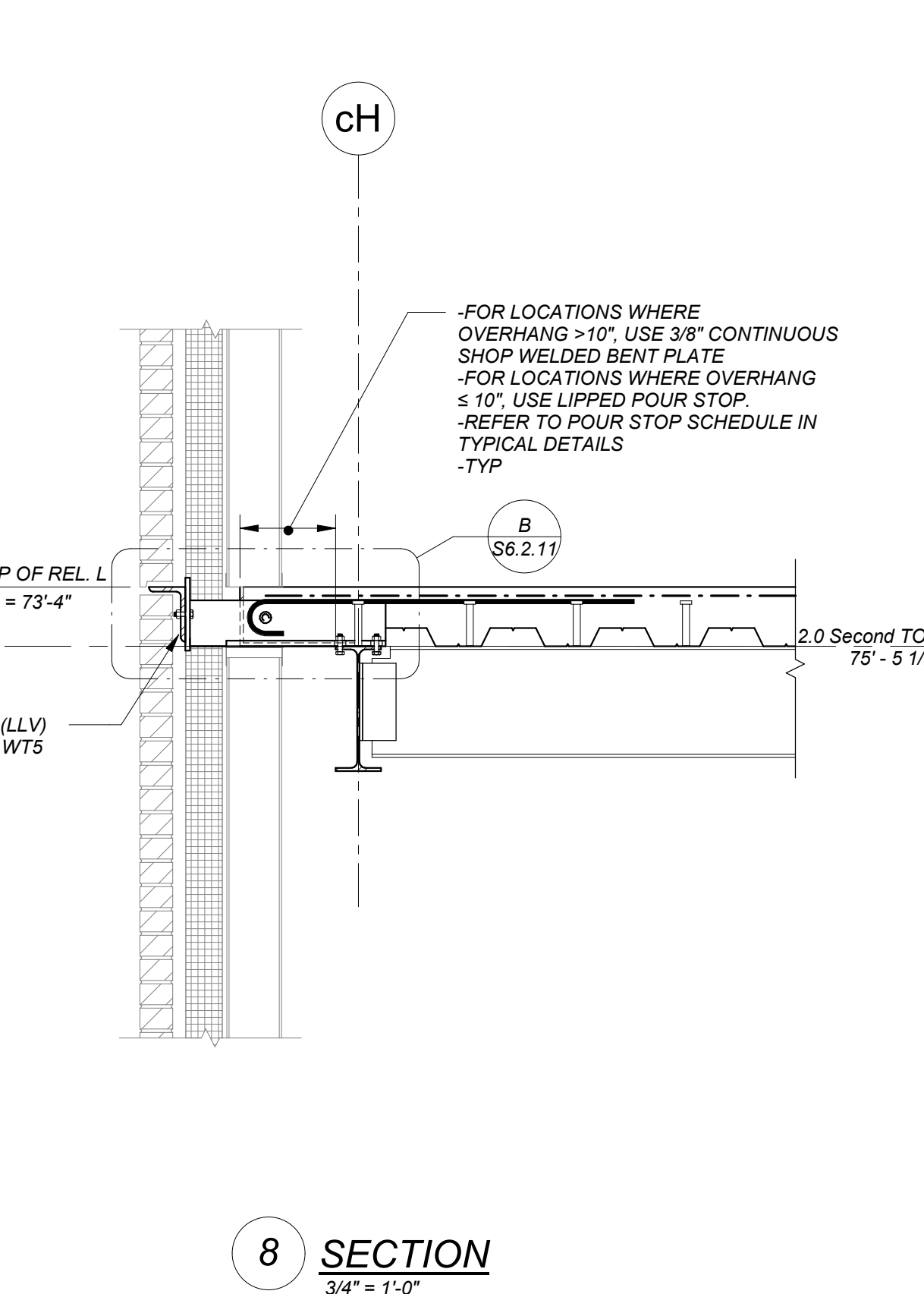
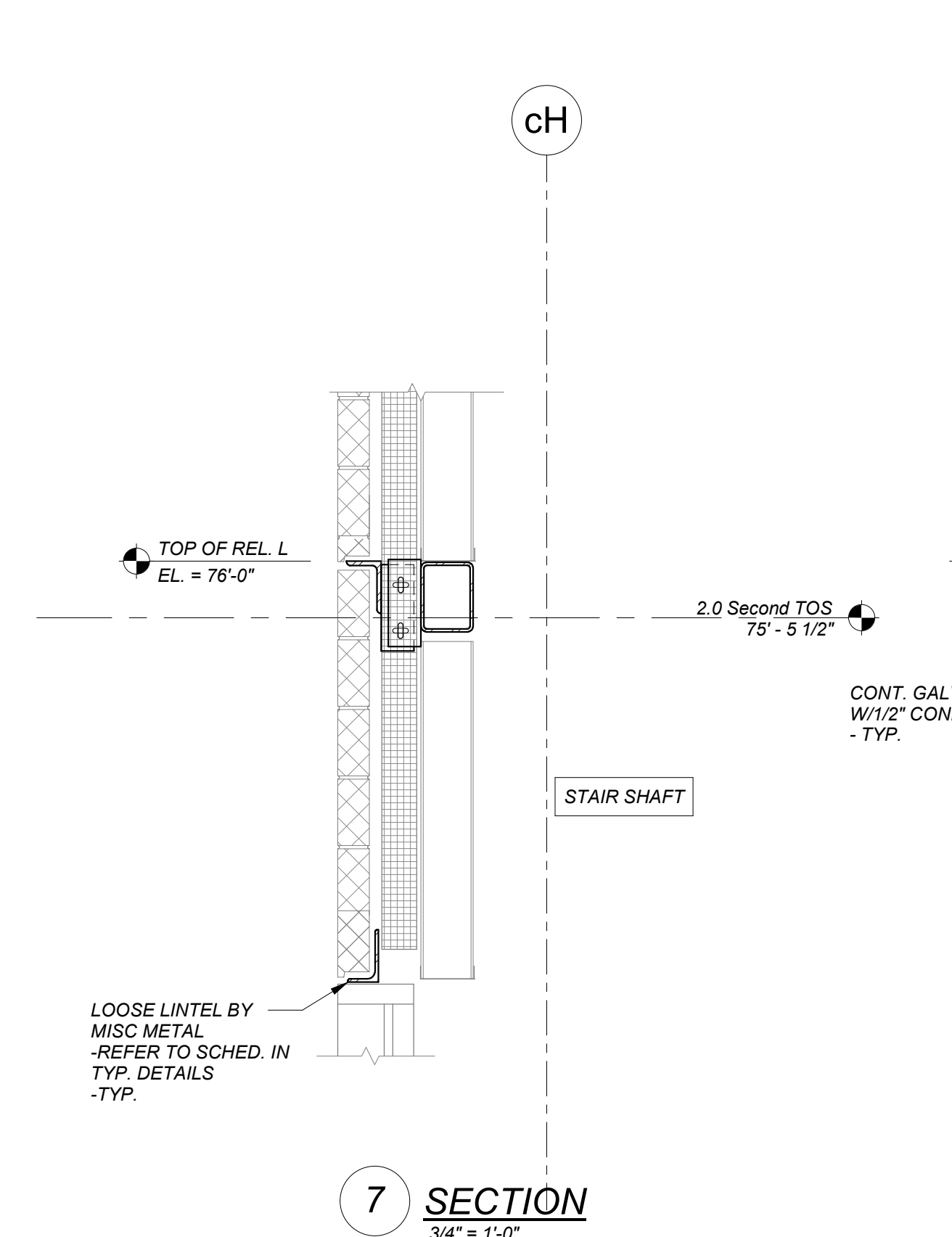
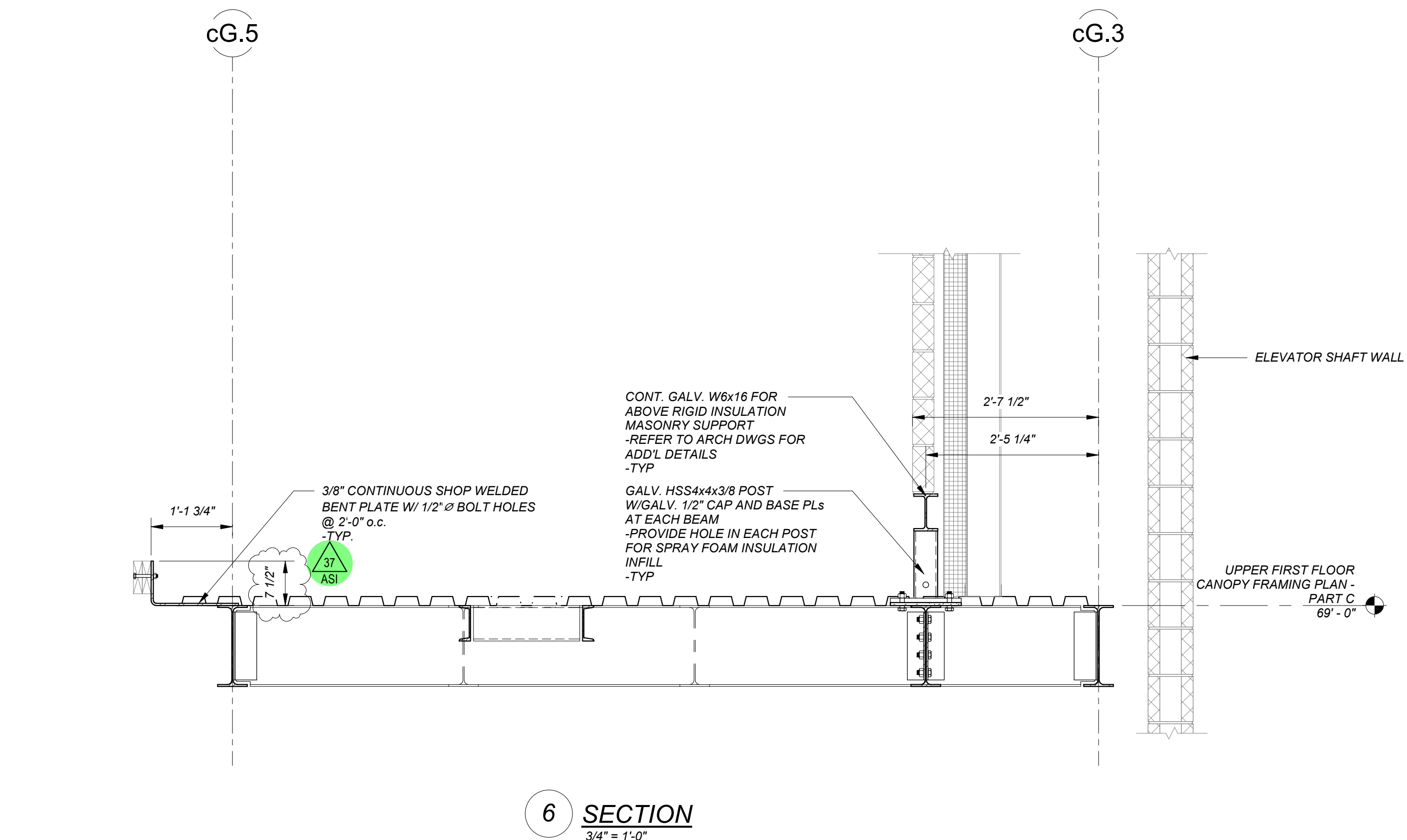
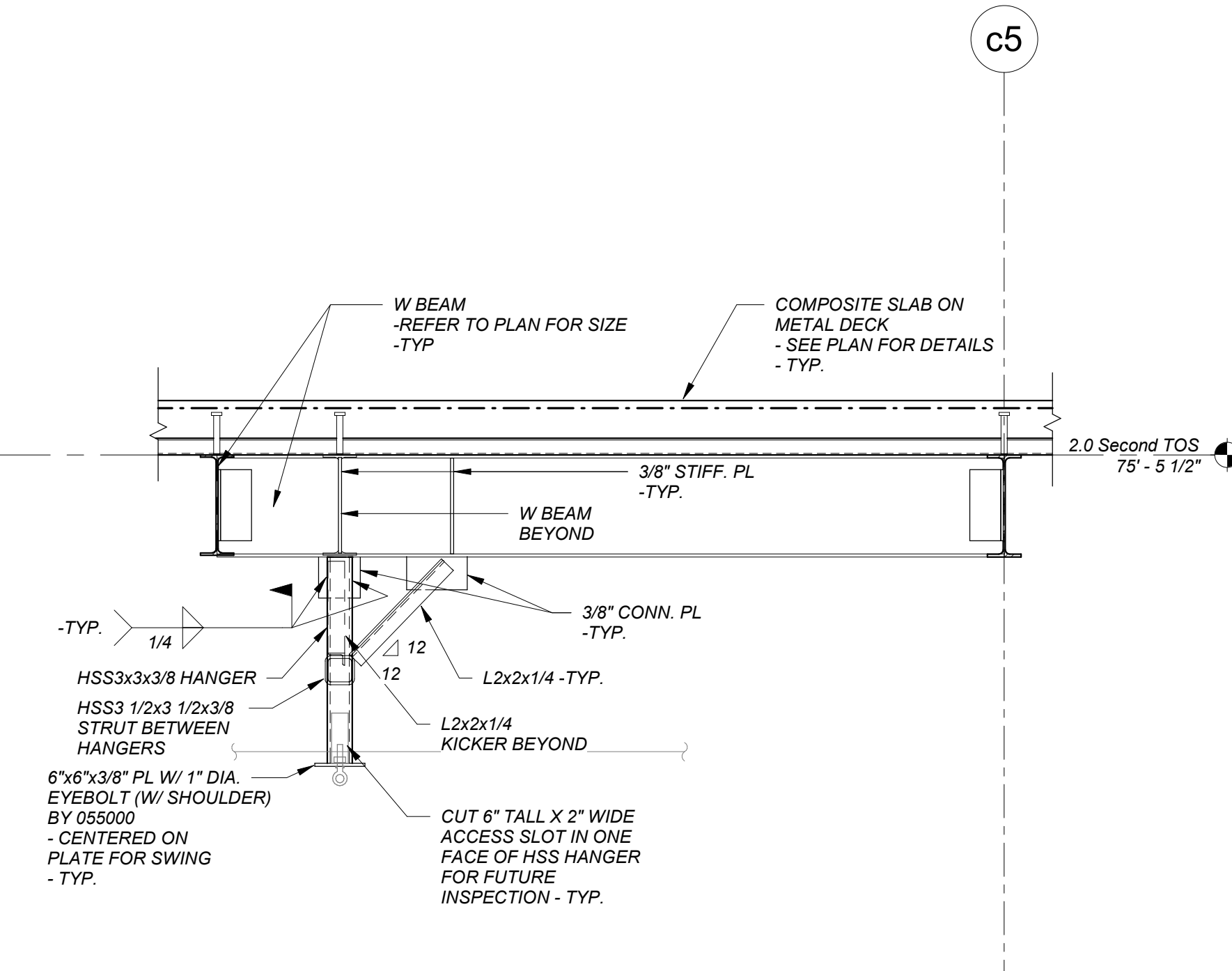
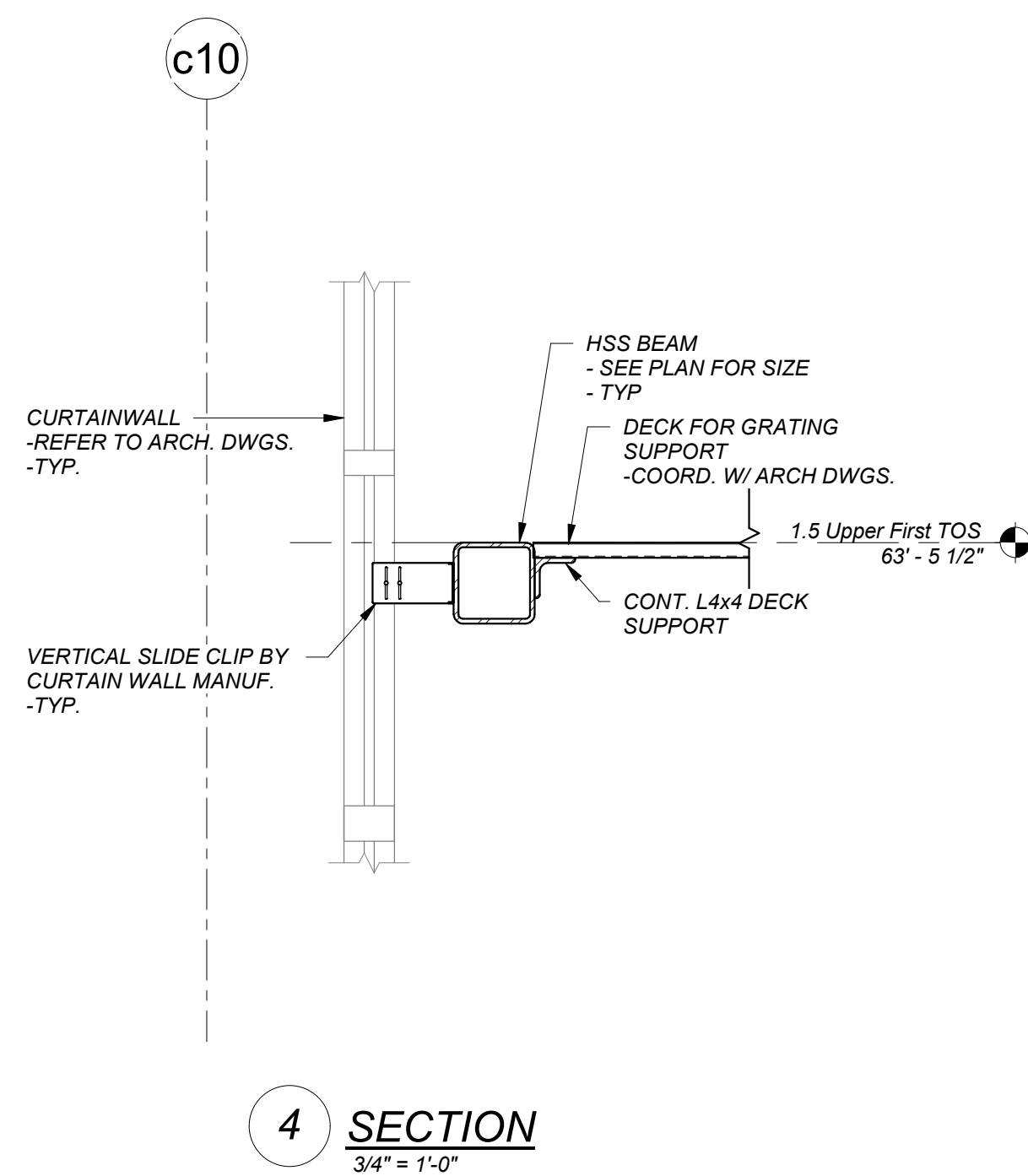
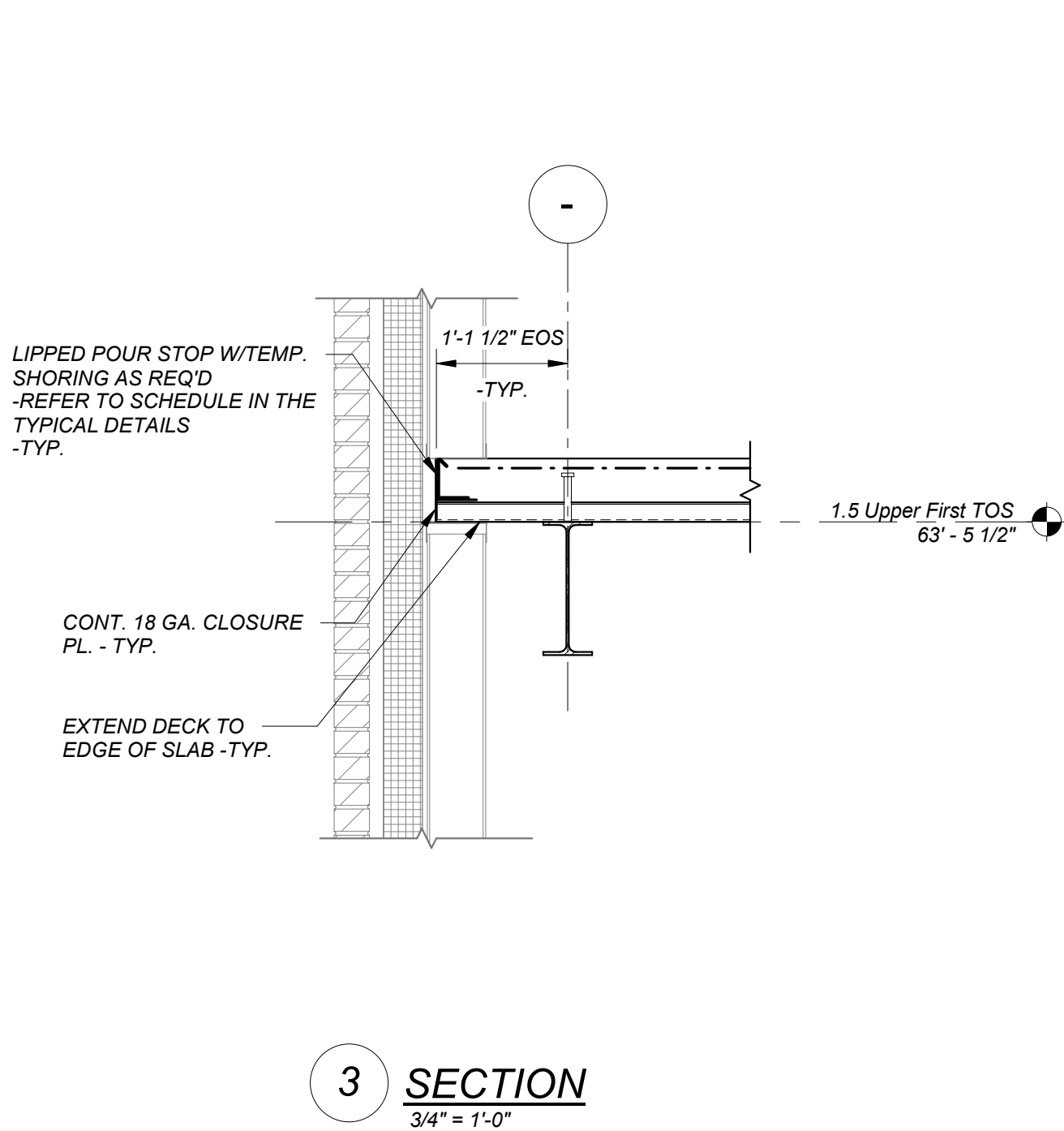
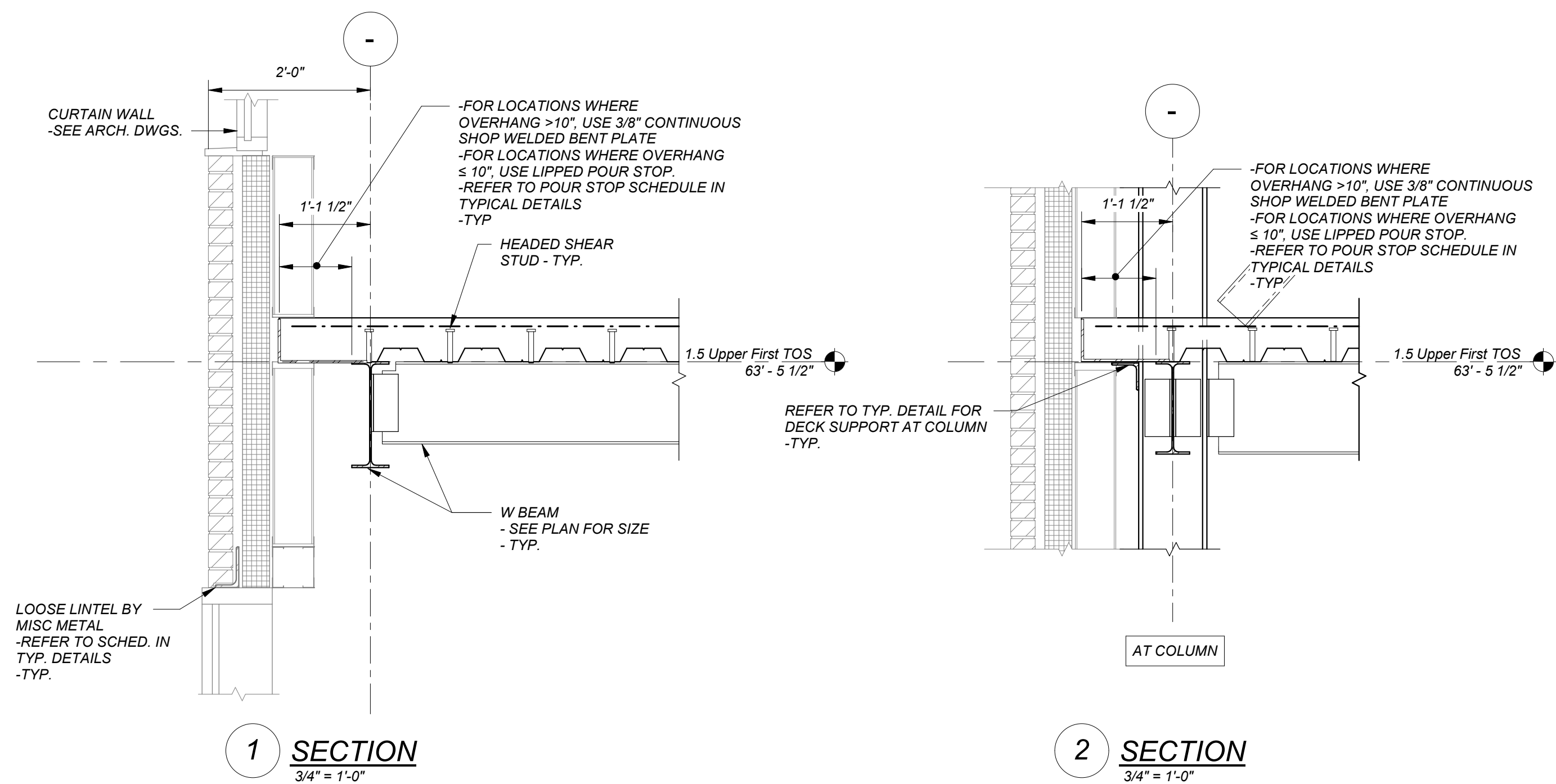
03/16/21	ASI 37
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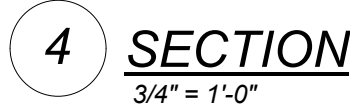
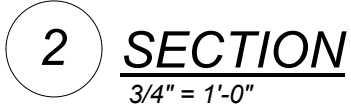
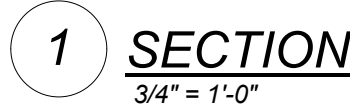
DATE VARIES	REMARKS
	ASI
03/16/21	ASI 37



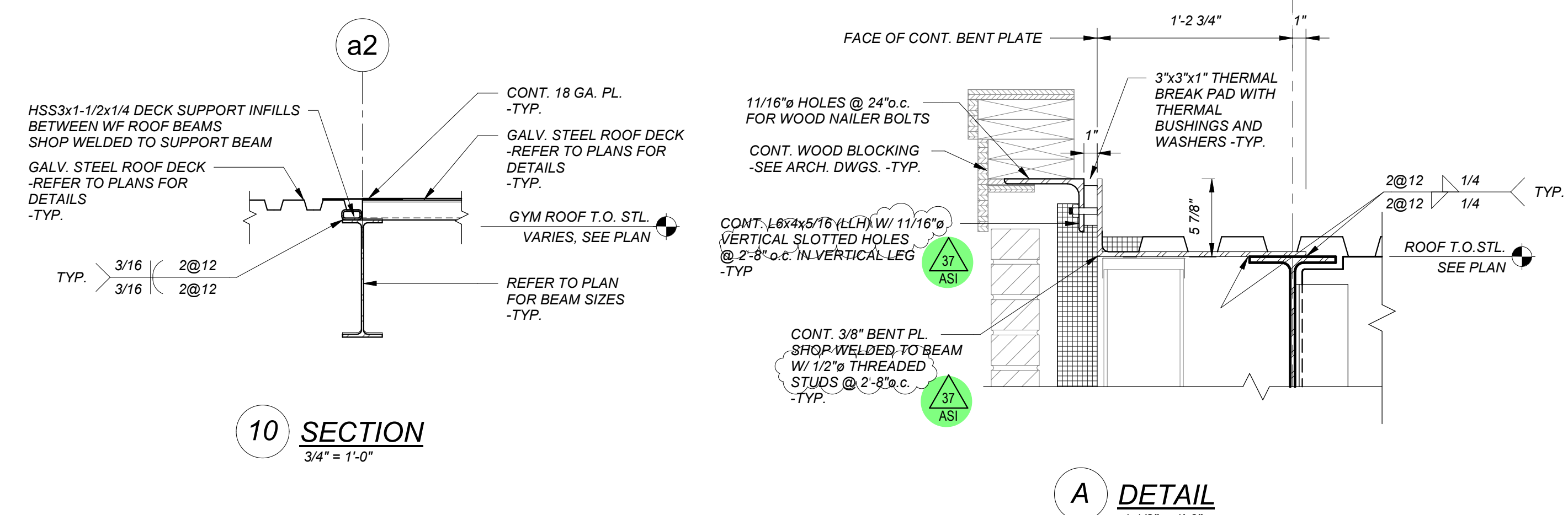
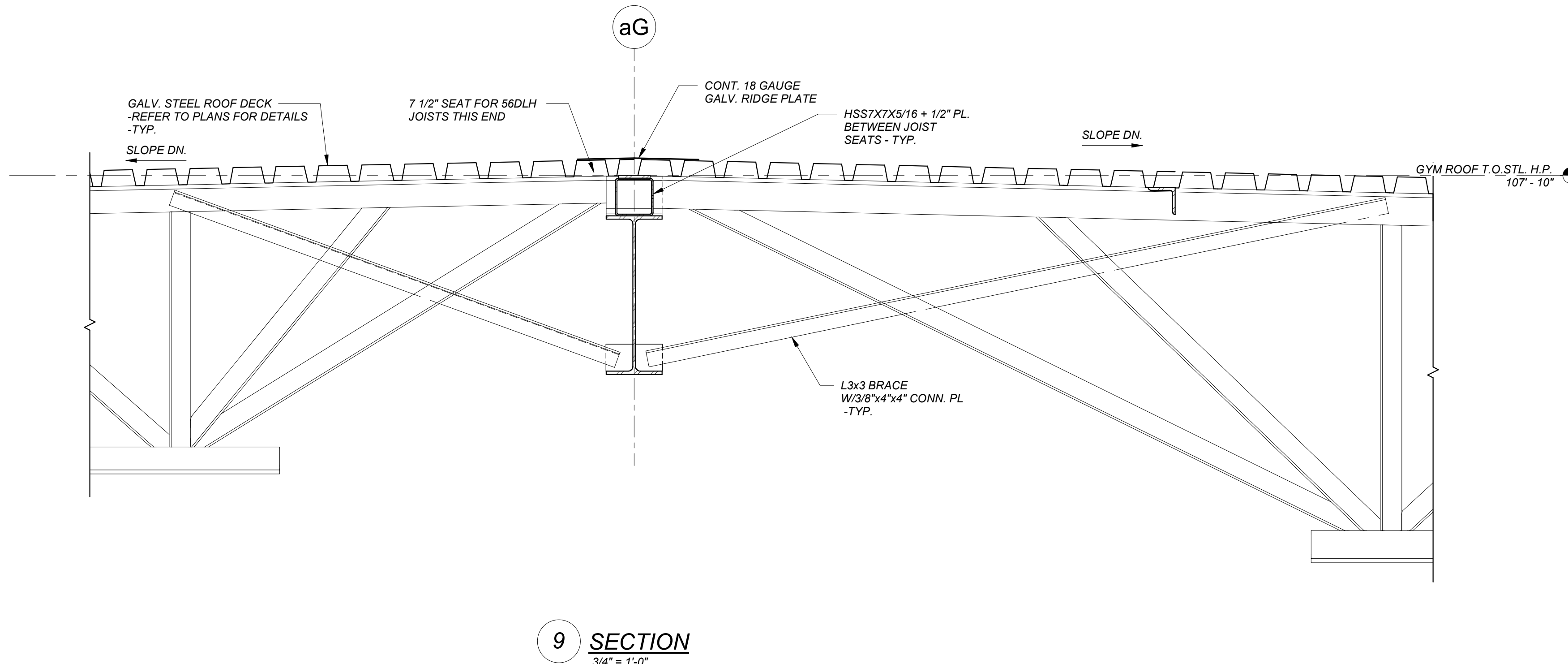
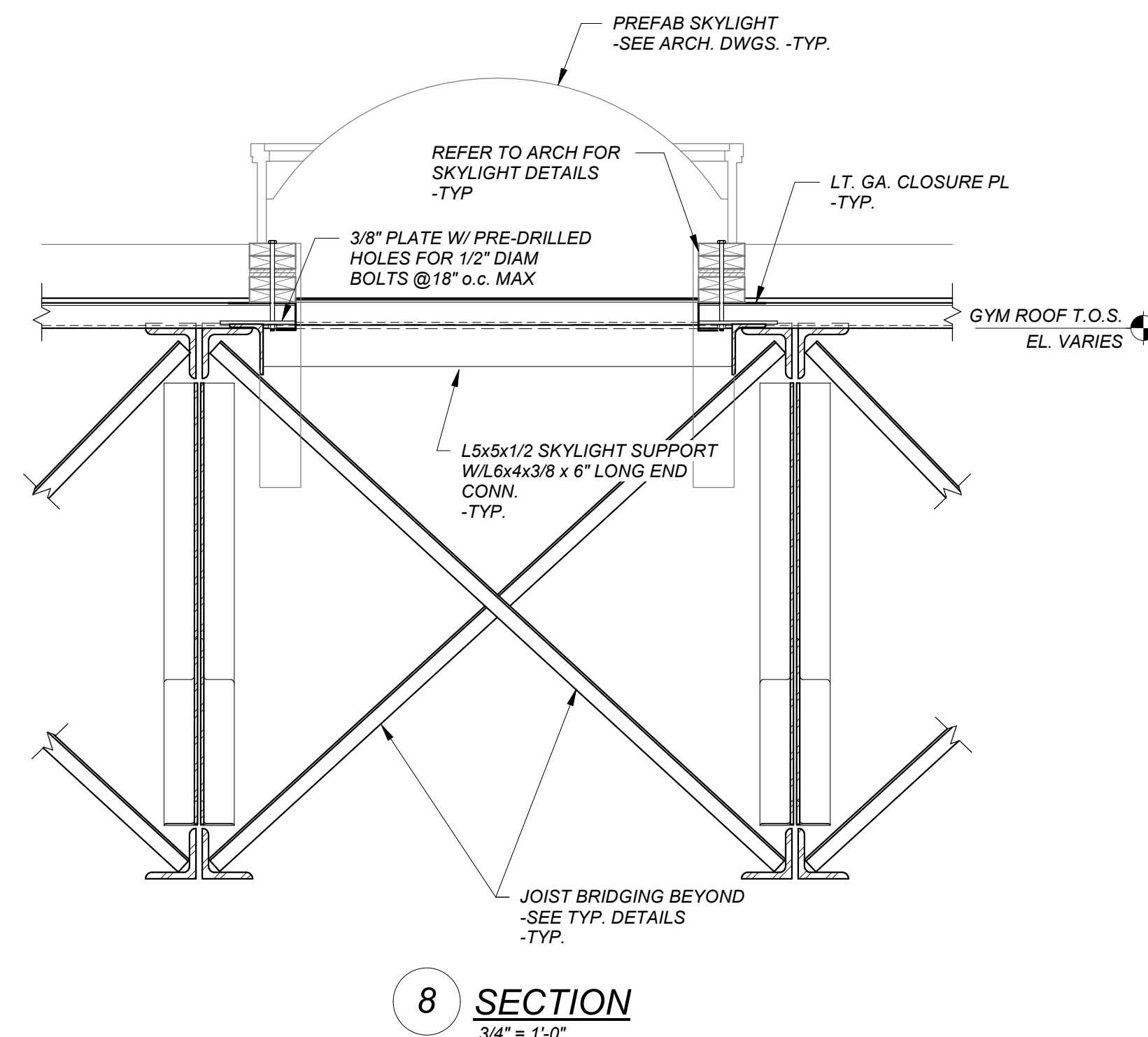
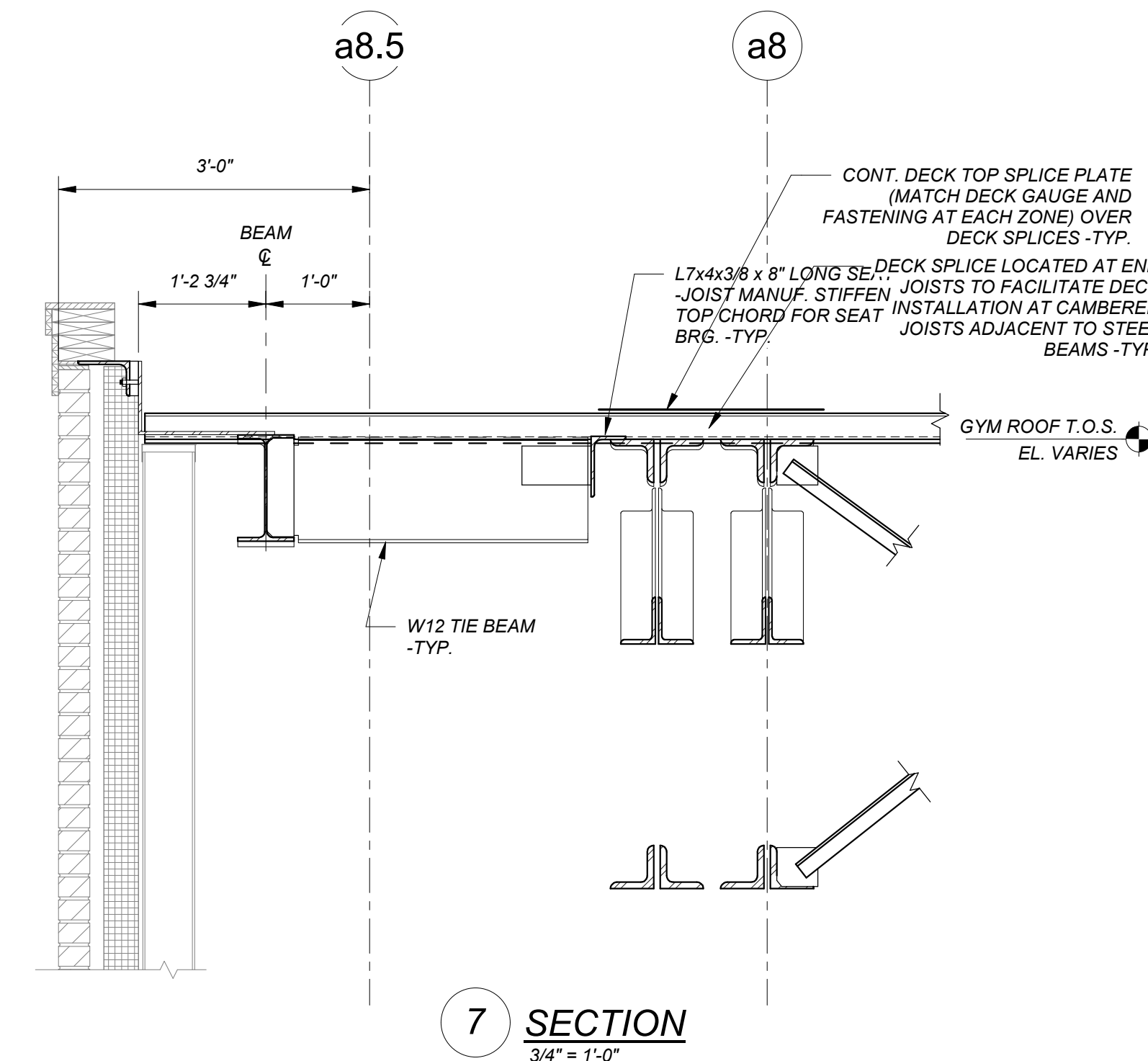
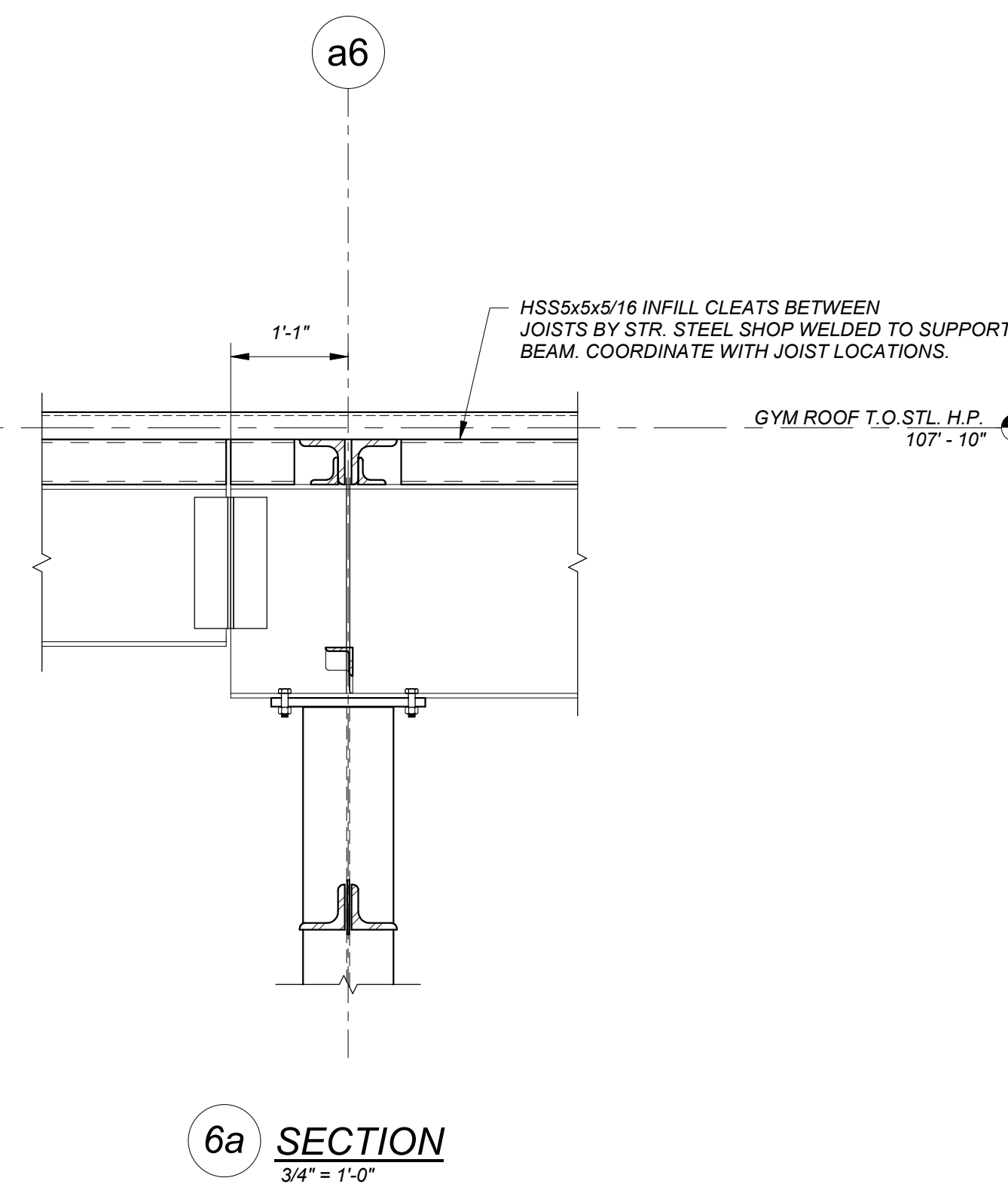
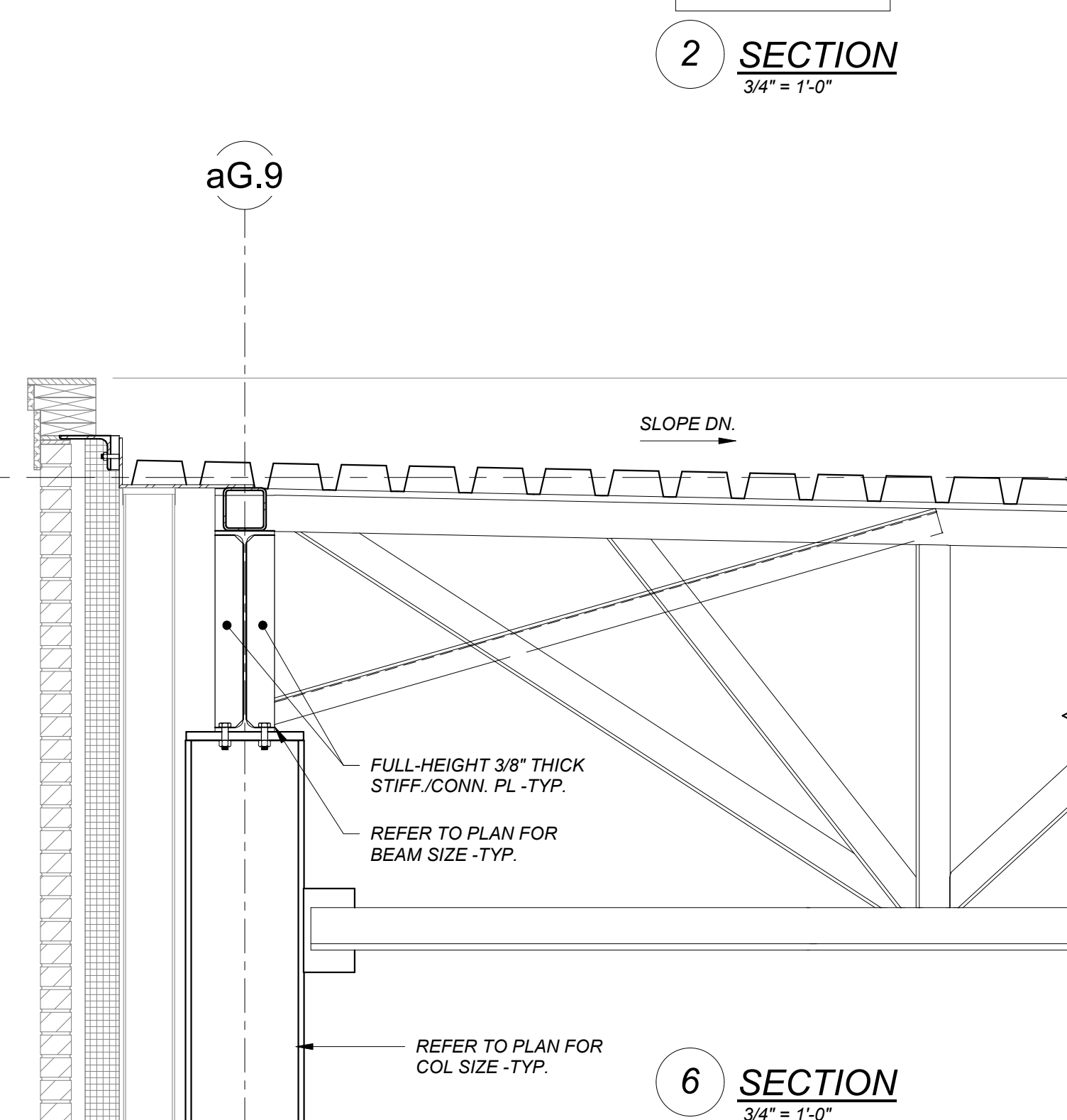
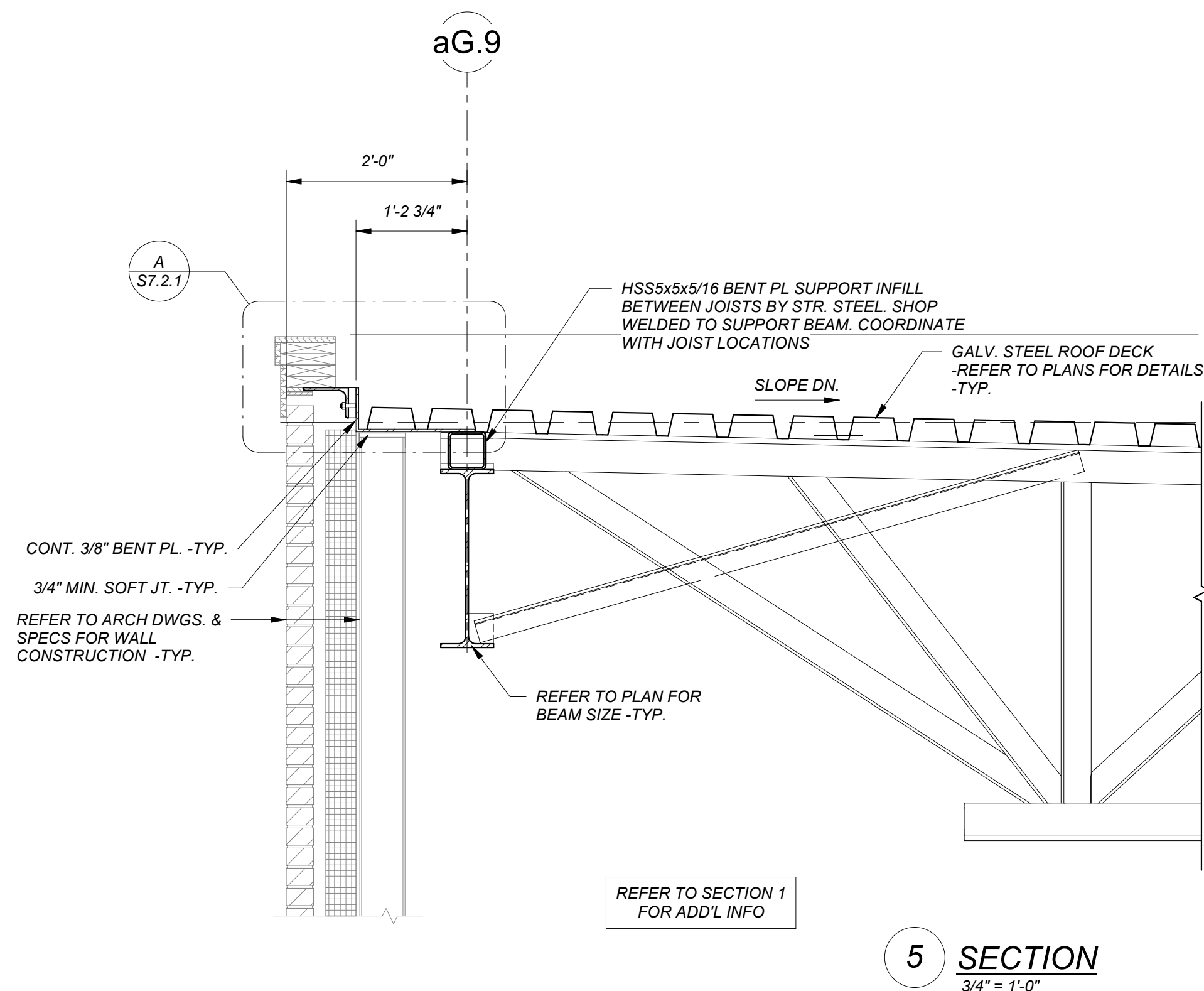
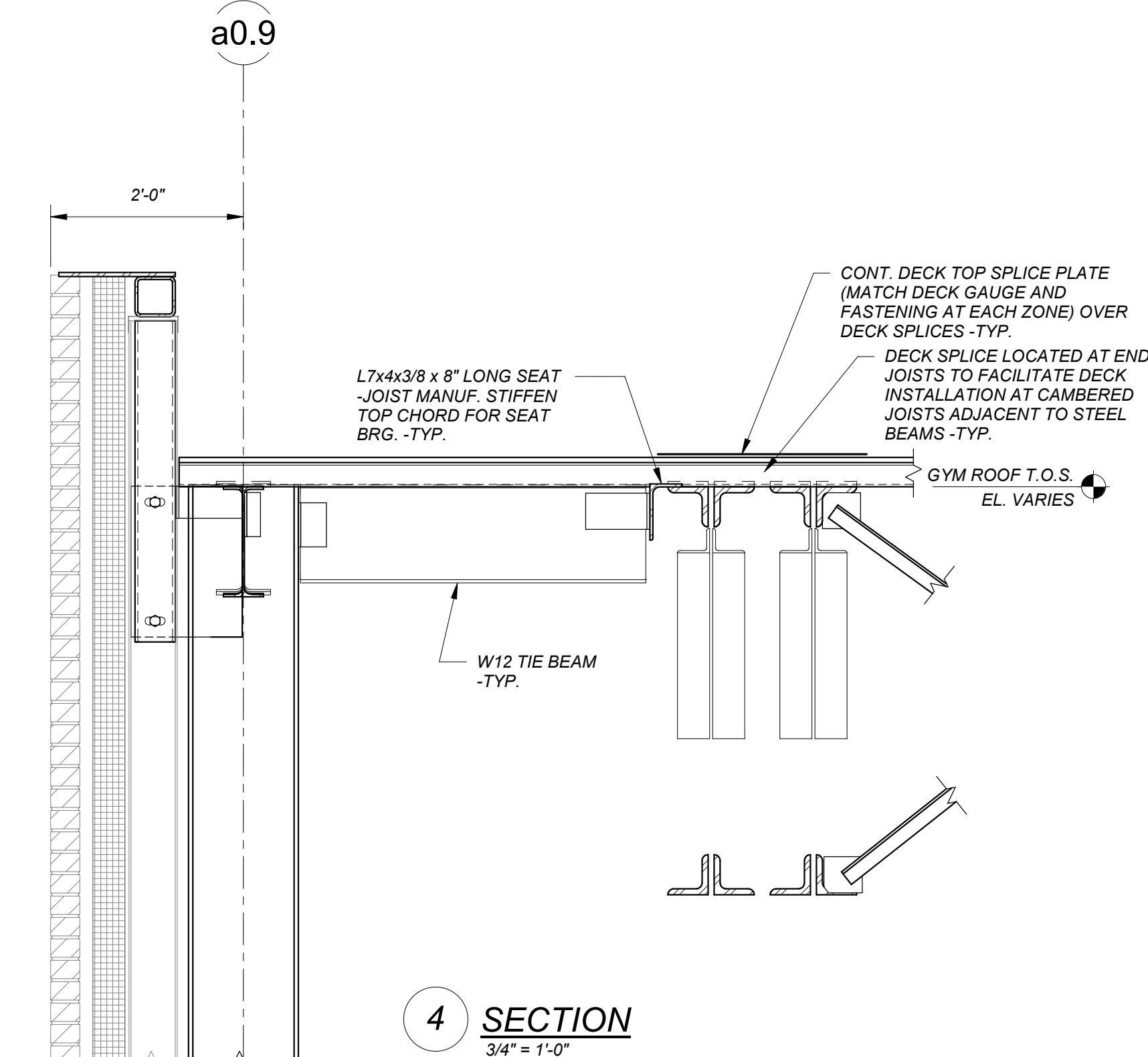
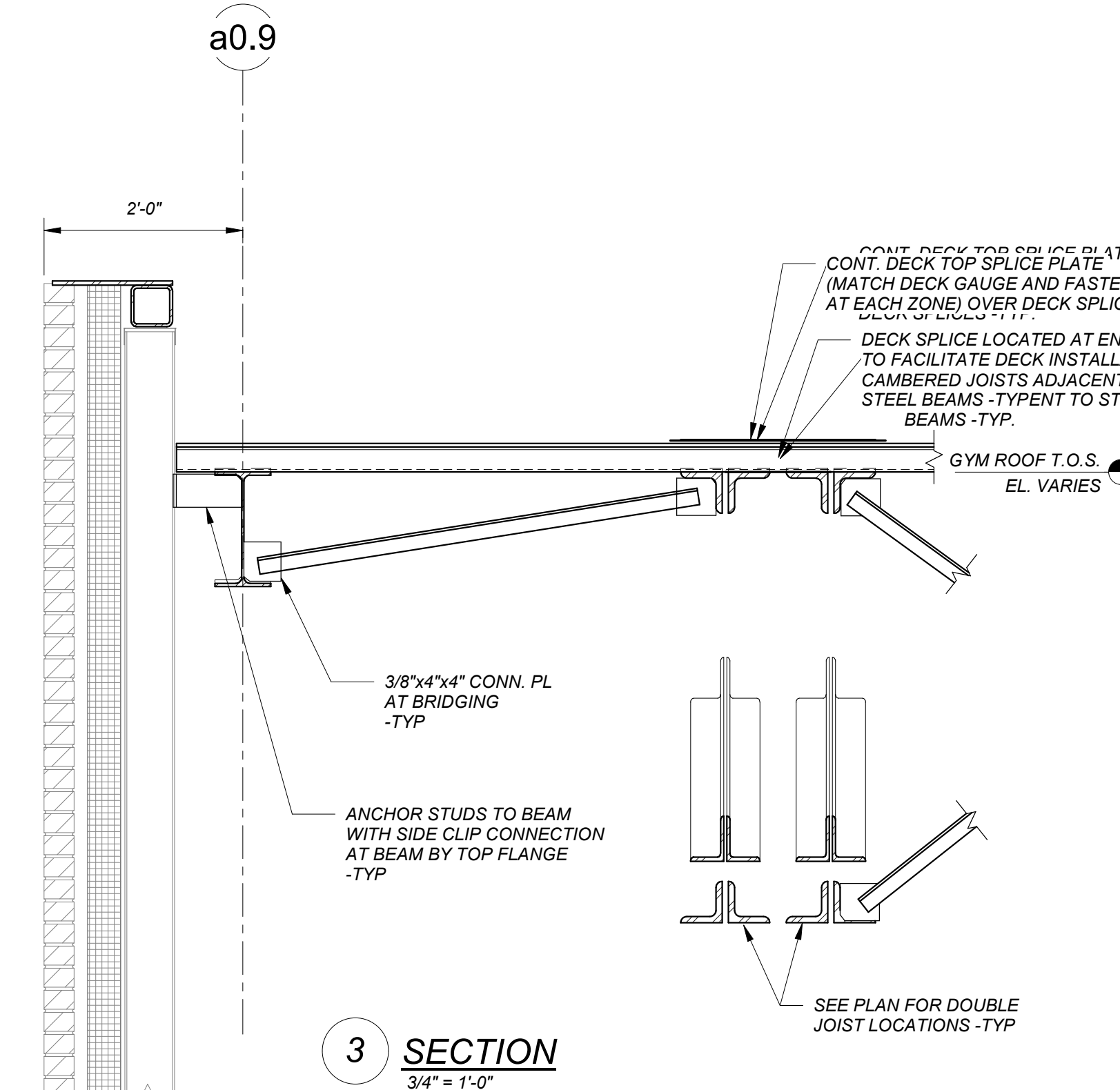
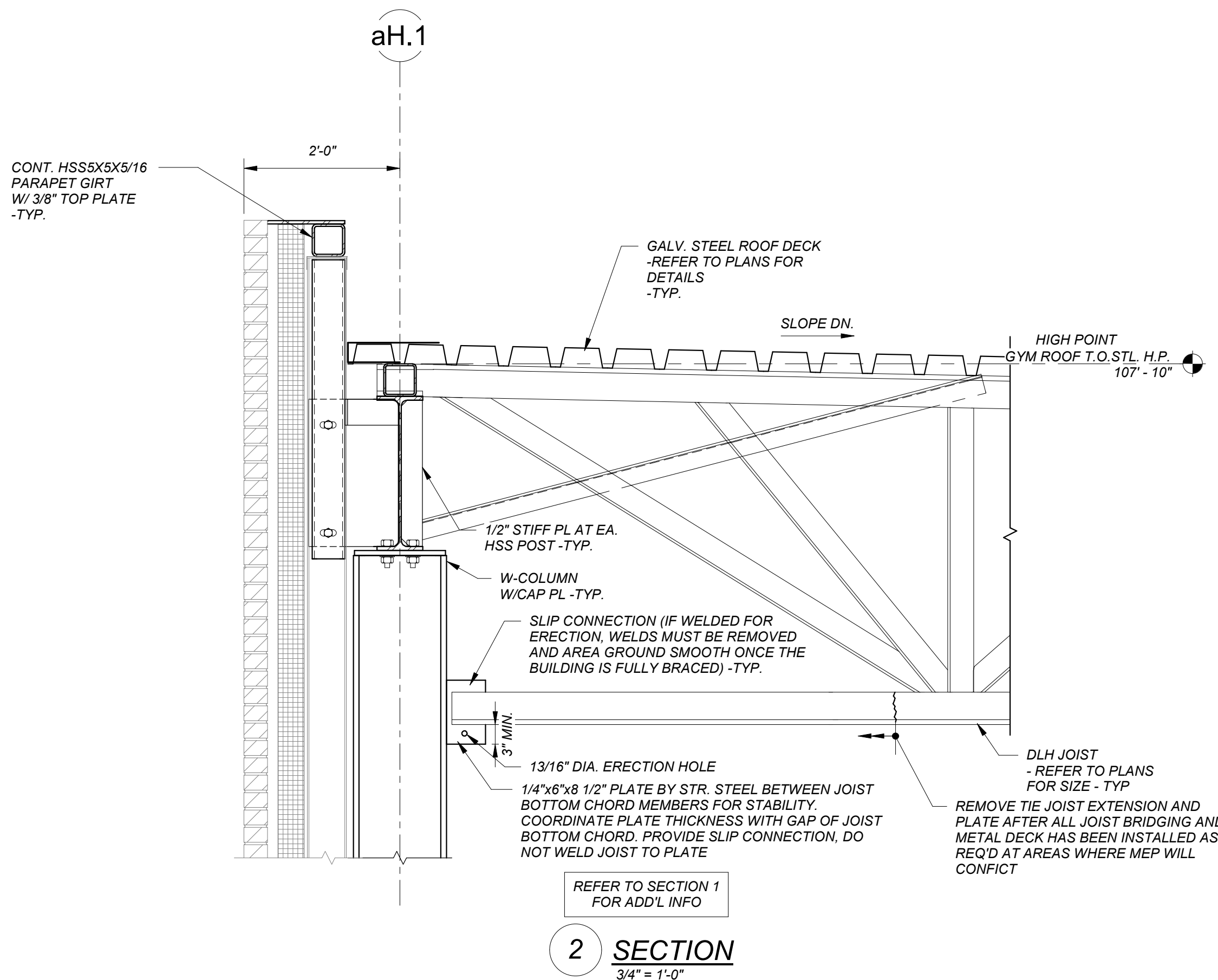
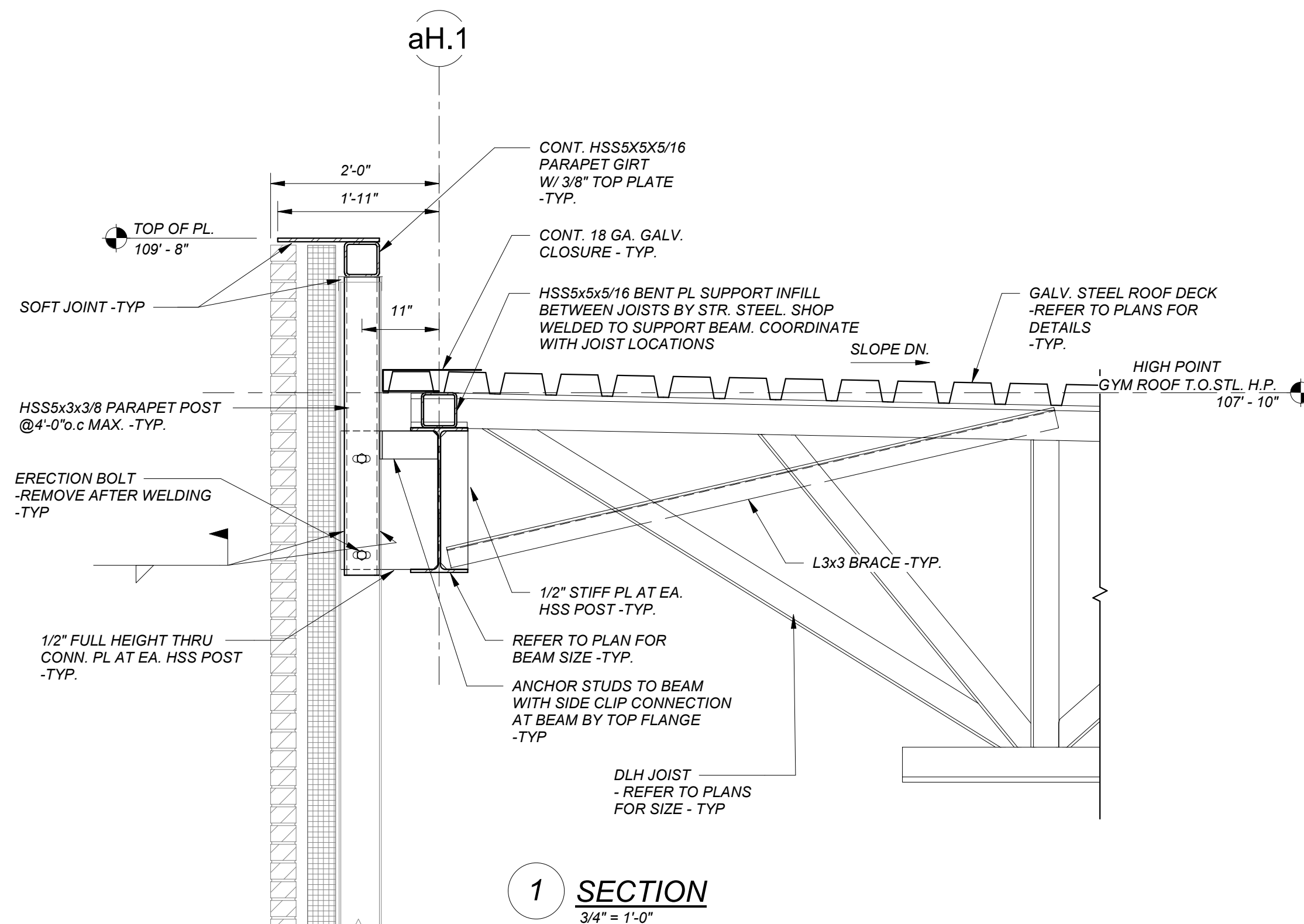
DATE	REMARKS
VARIES	ASI
03/16/21	ASI 37



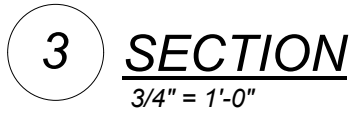
DATE	REMARKS
12/11/2020	PHASE 2/3 ADDENDA INCORPORATED
VARIES	ASI
03/16/21	ASI 37



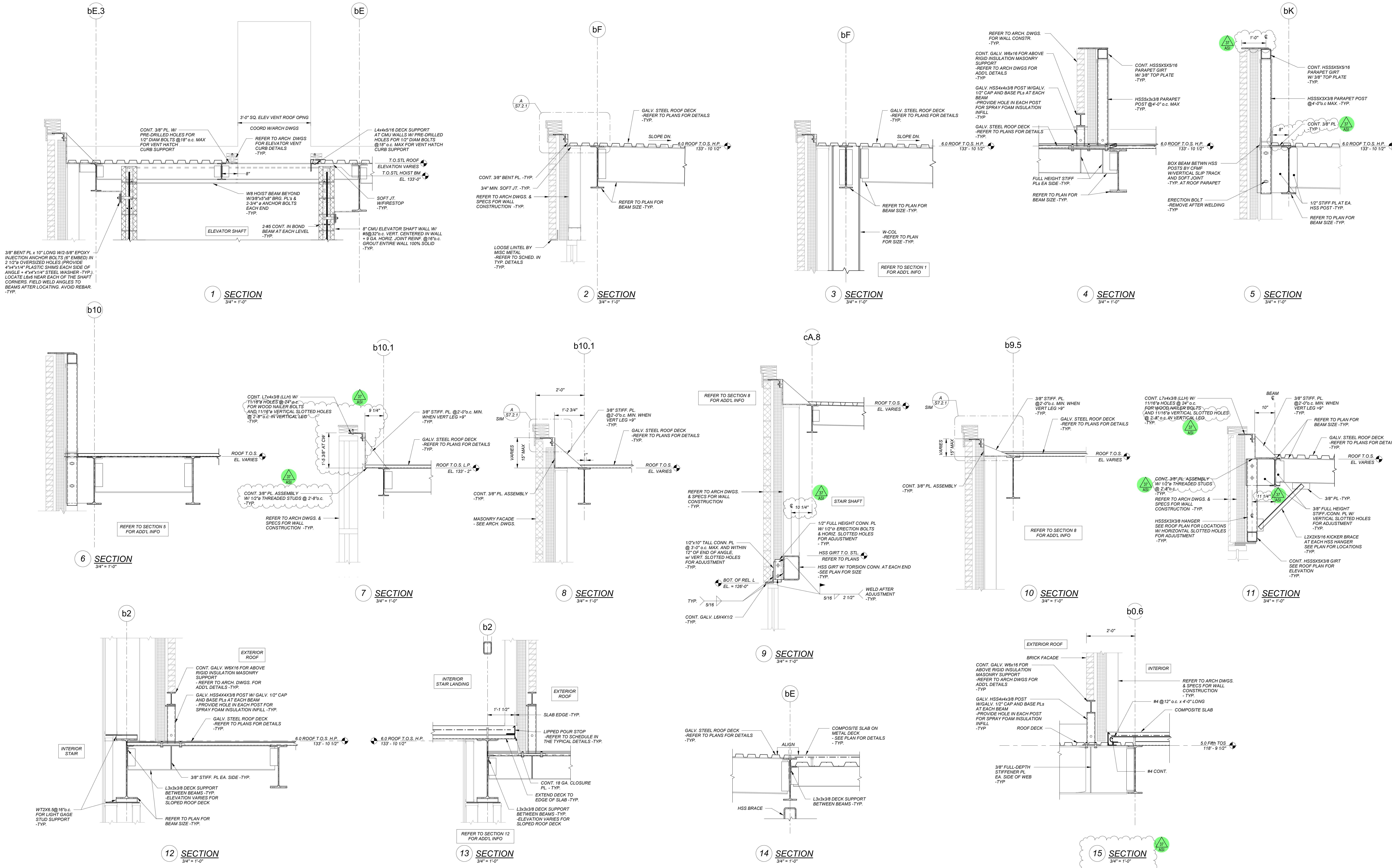
S6.2.9

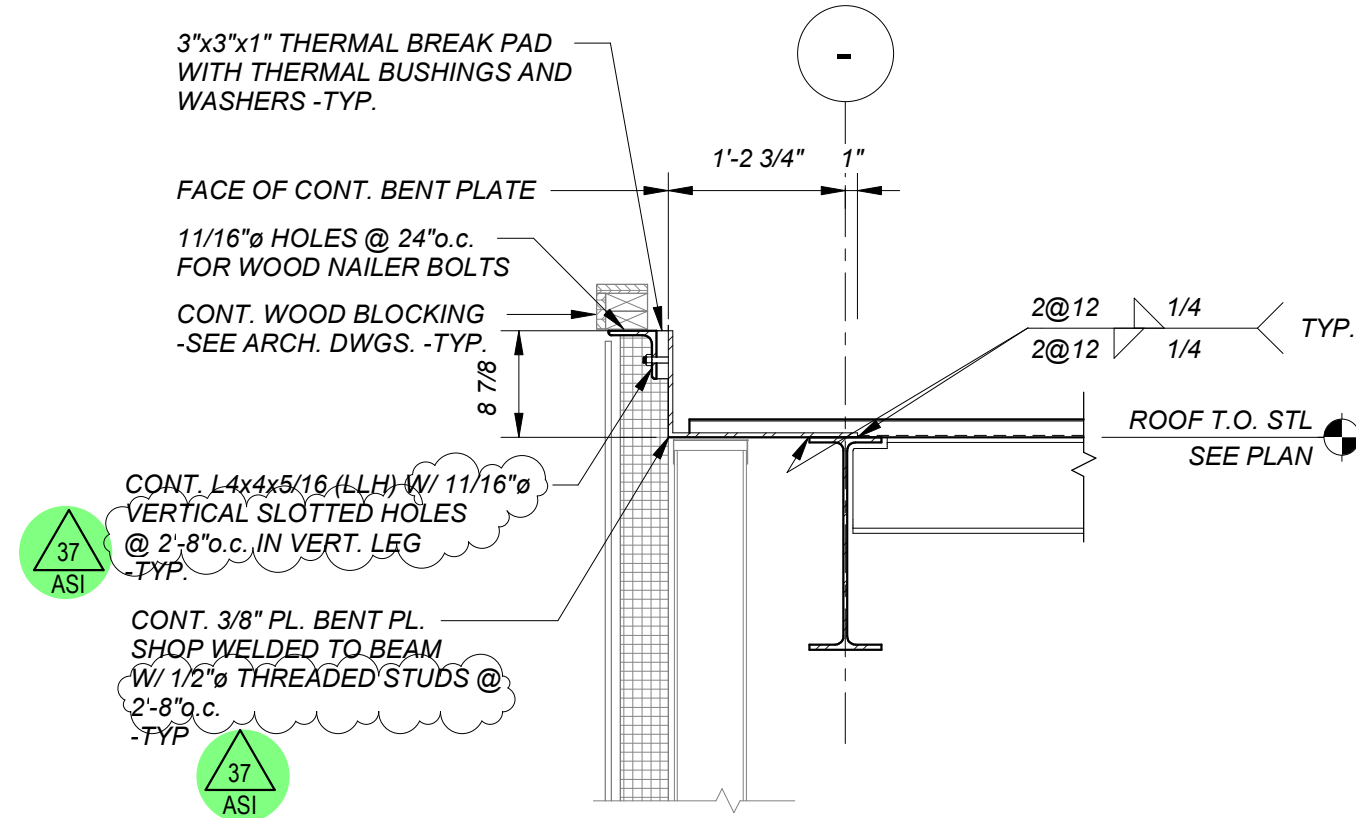
A DETAIL
1 1/2" = 1'-0"

DATE	REMARKS
12/11/2020	PHASE 2/3 ADDENDA INCORPORATED
VARIES	ASI
03/16/21	ASI 37

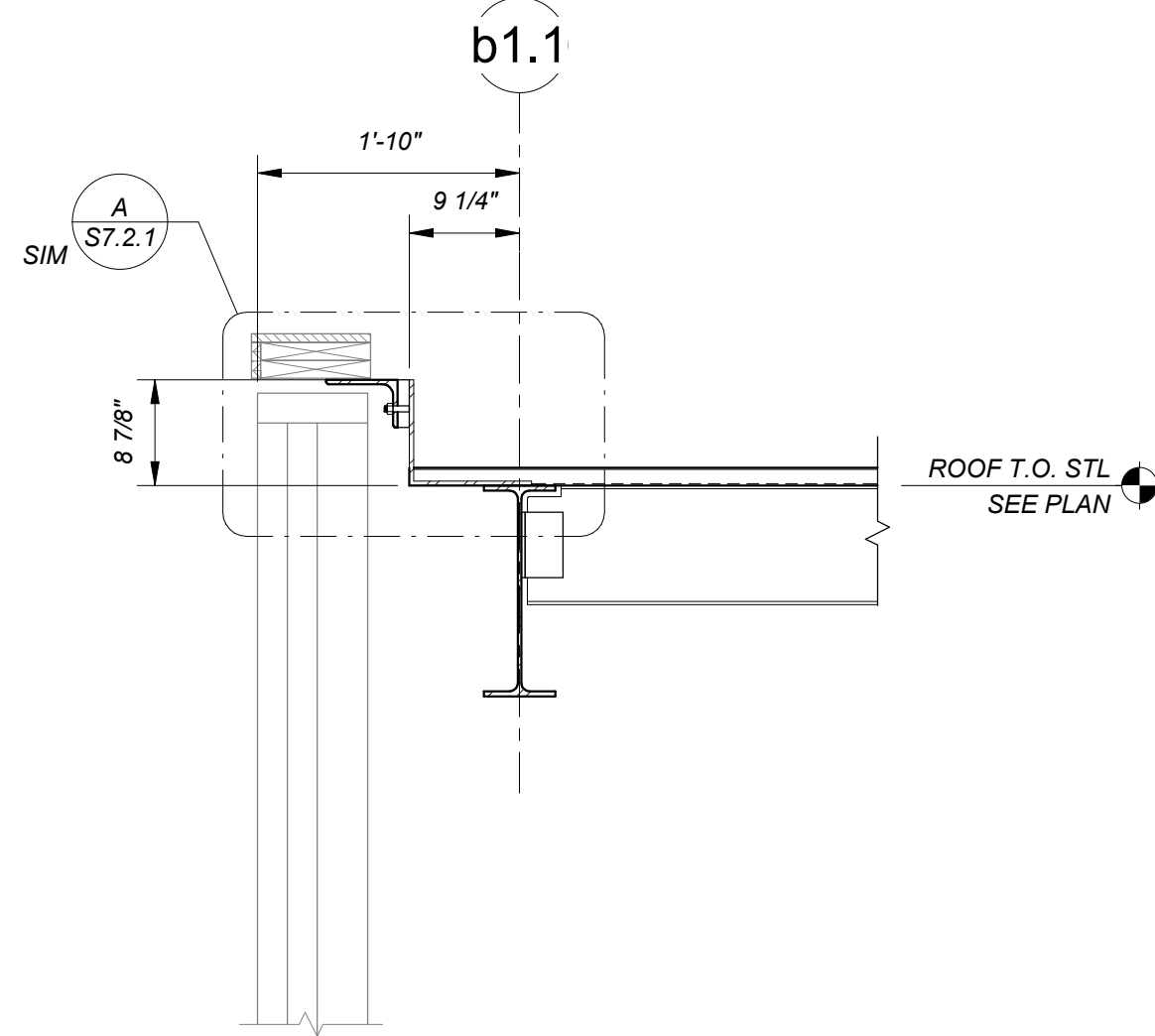


03/16/21	ASI 37
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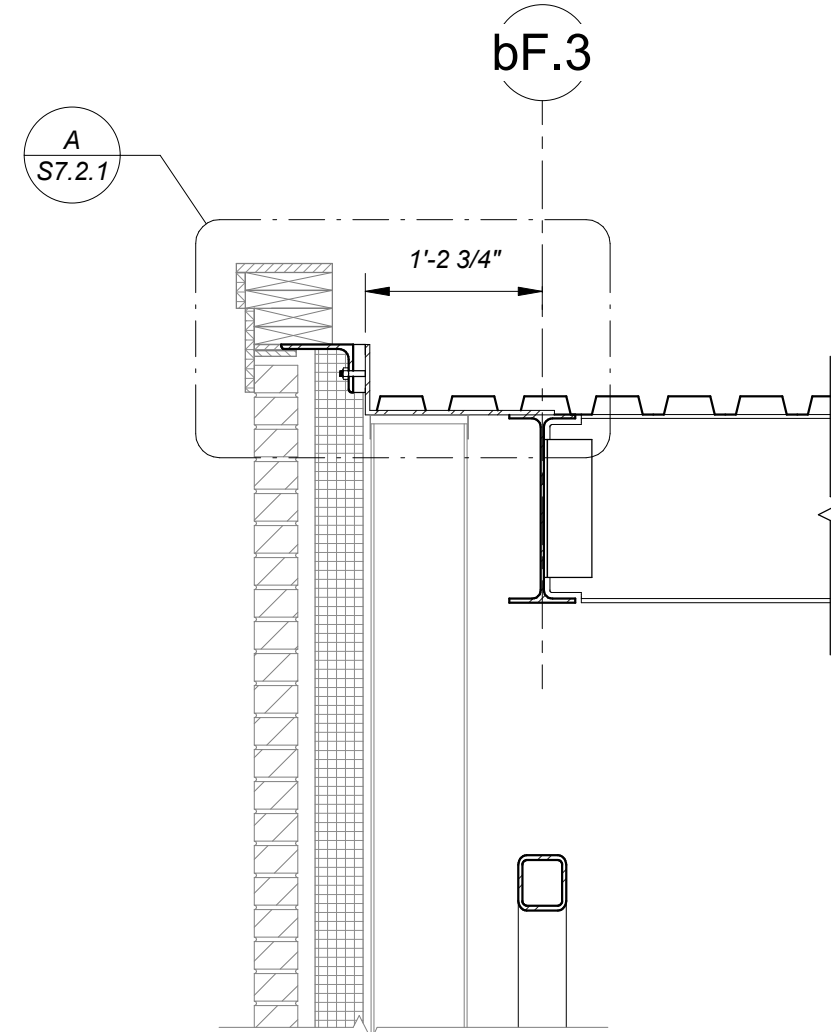




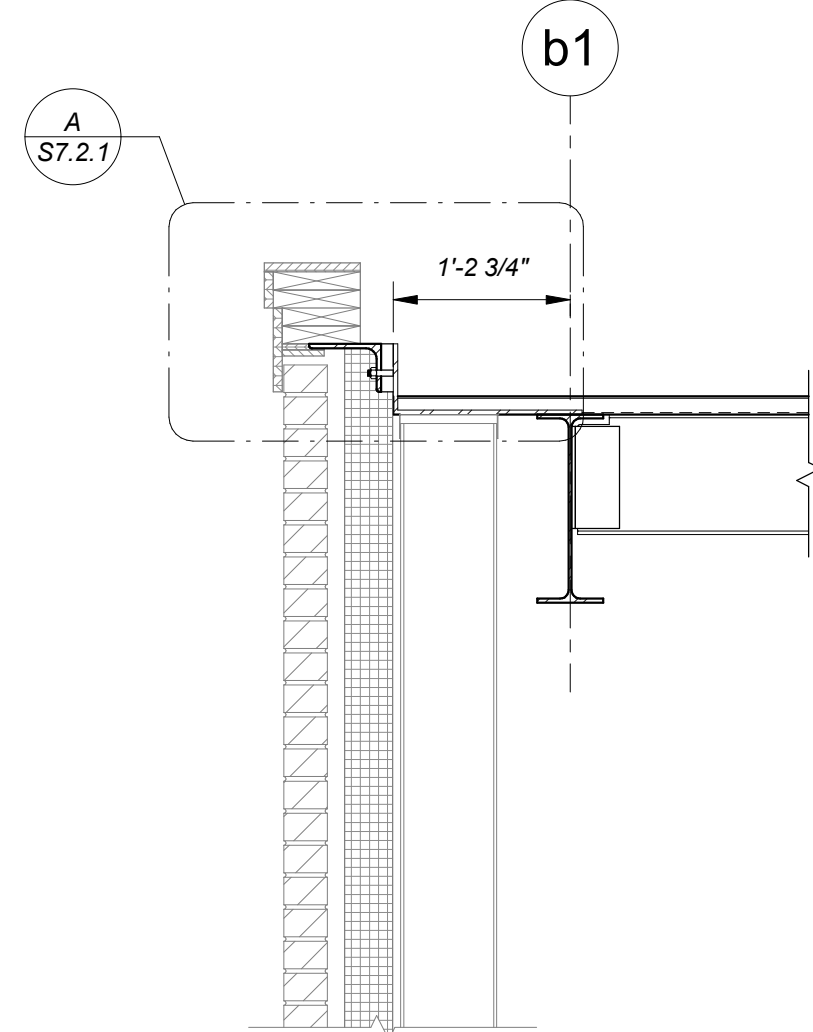
1 SECTION
3/4" = 1'-0"



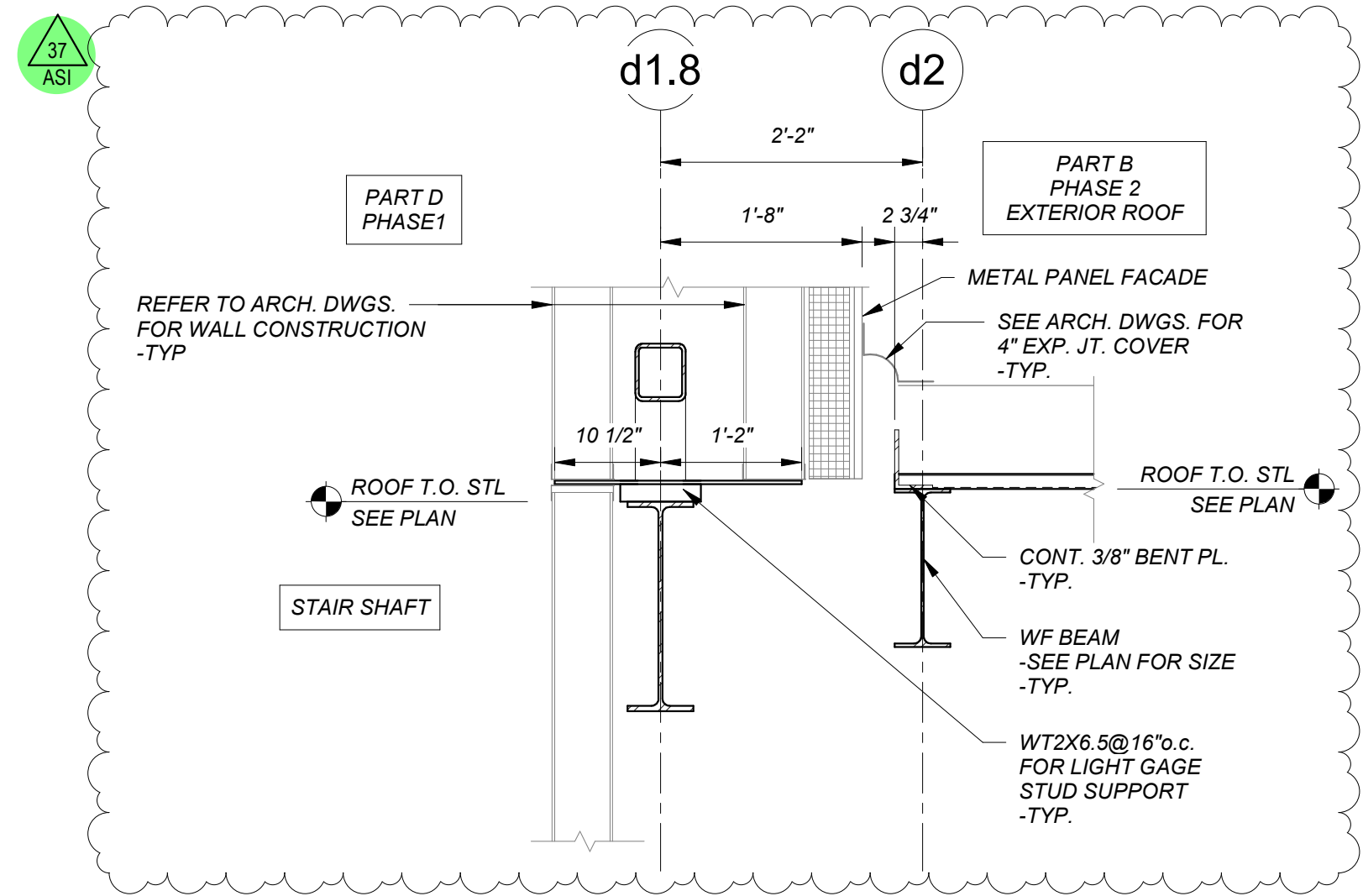
2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



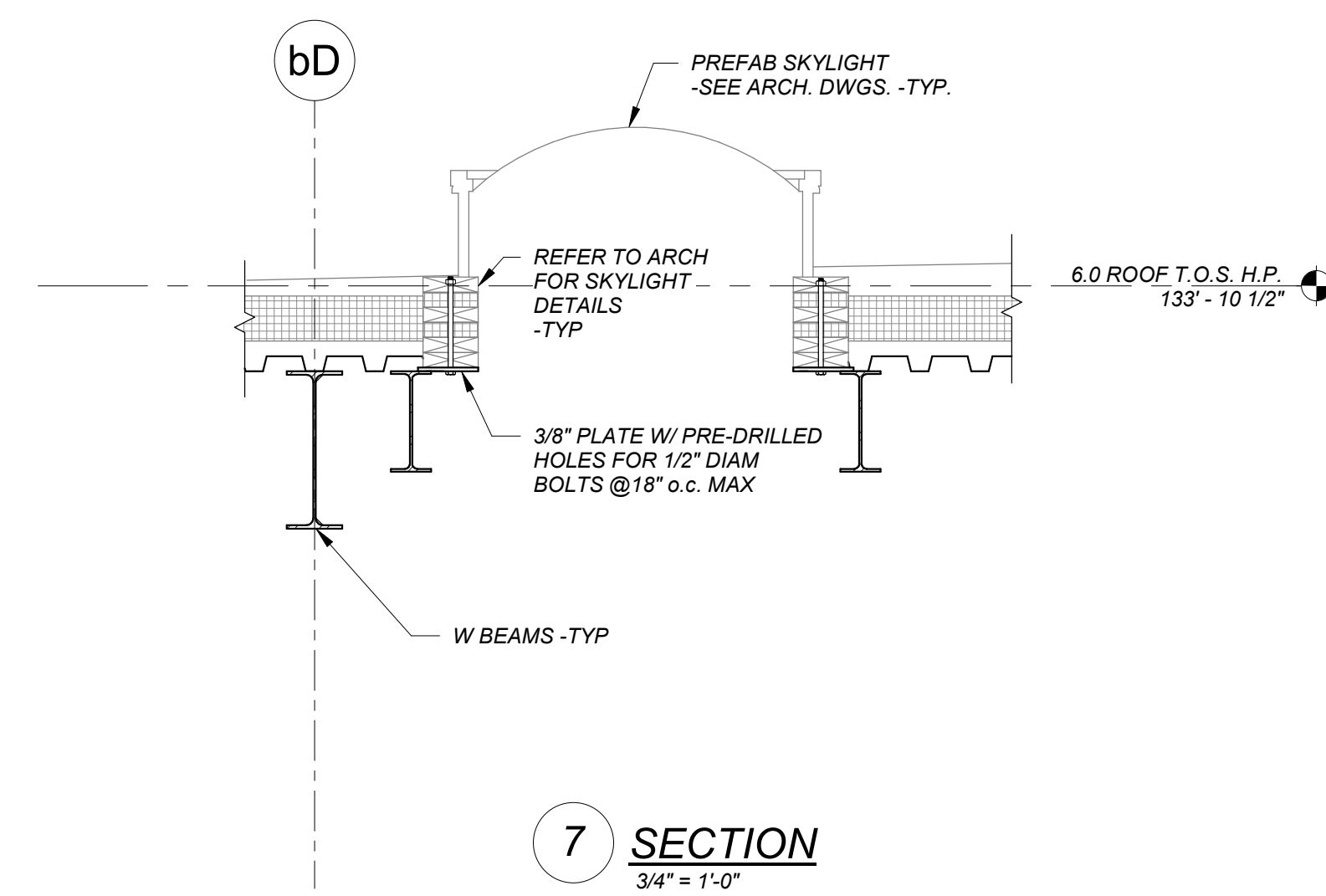
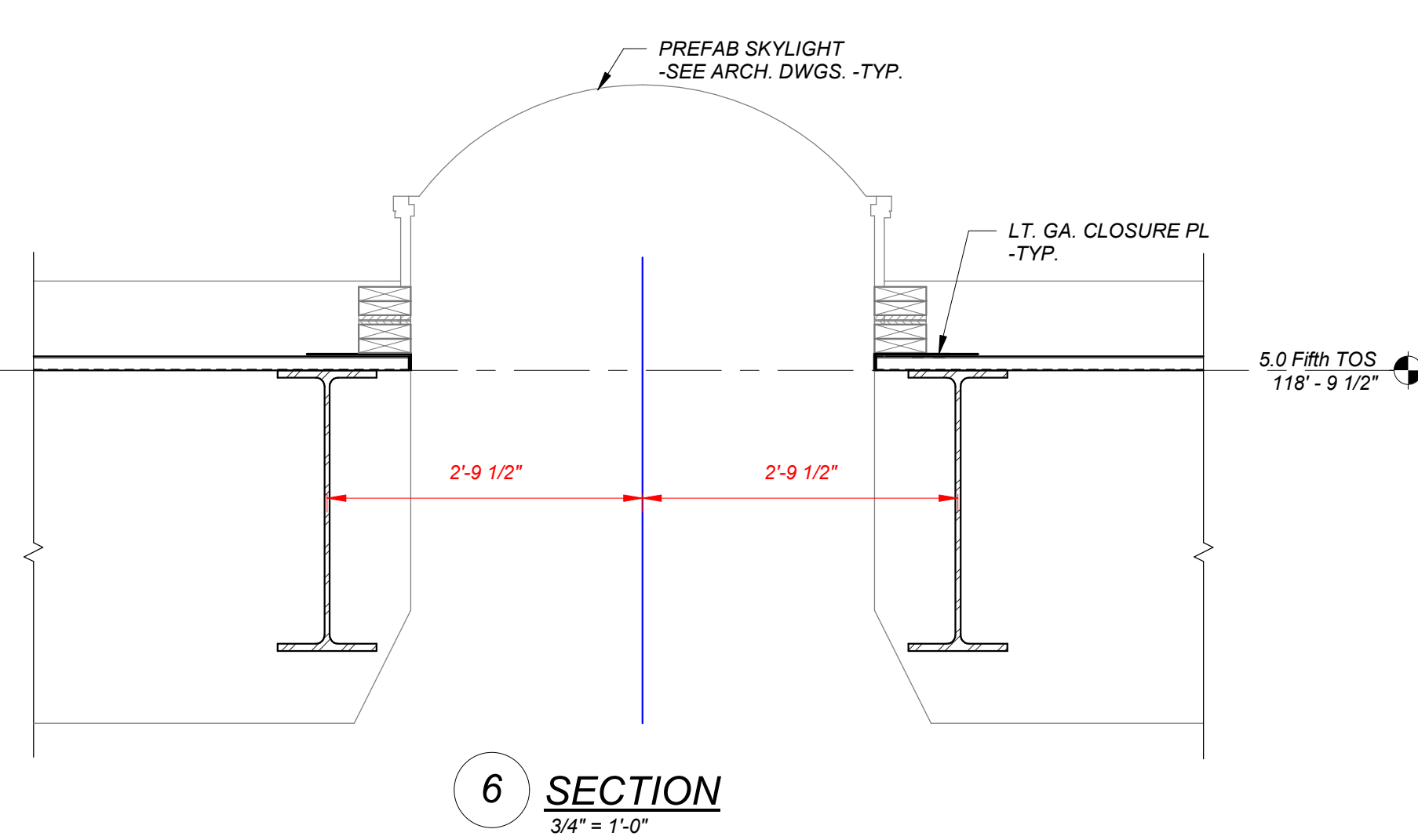
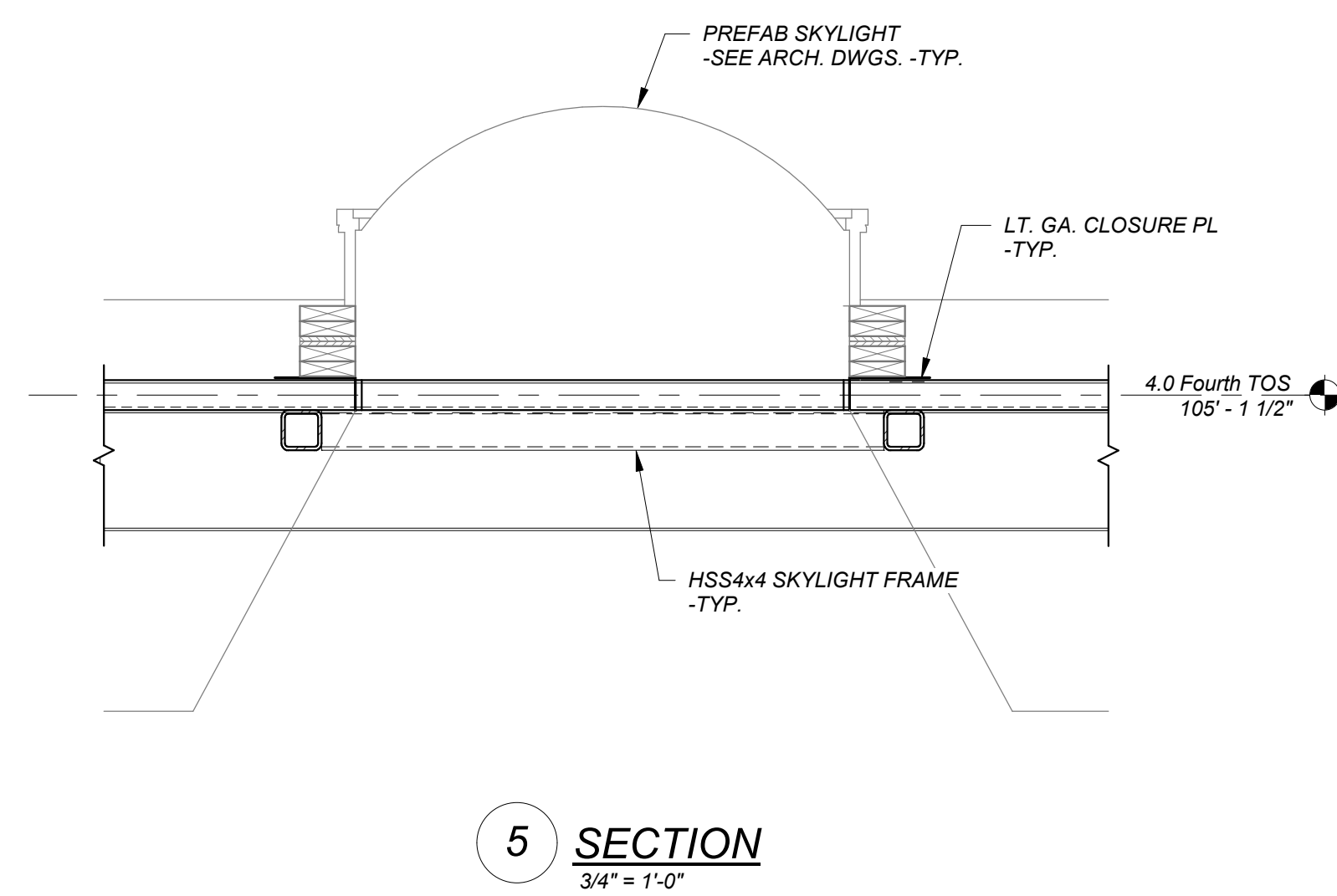
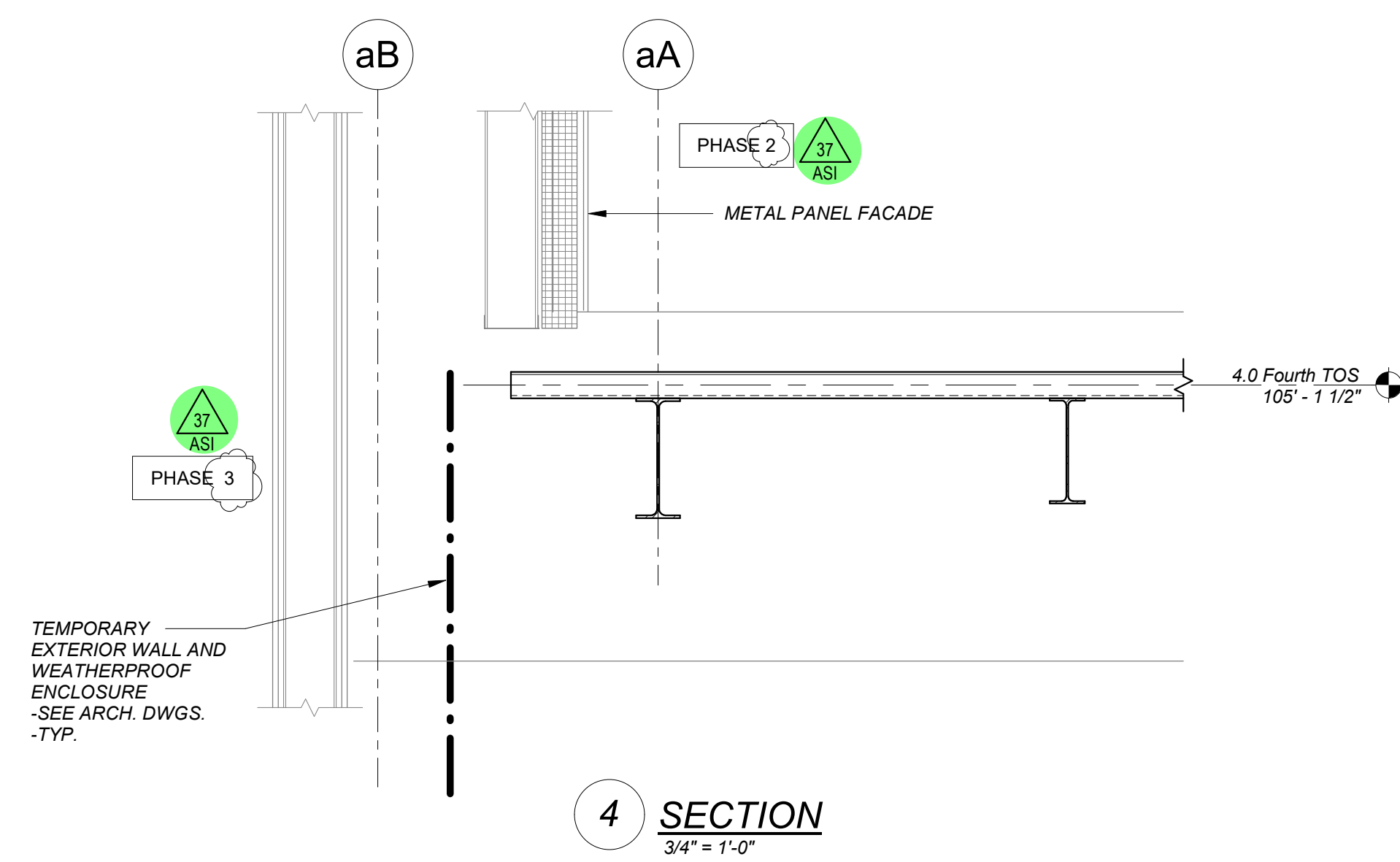
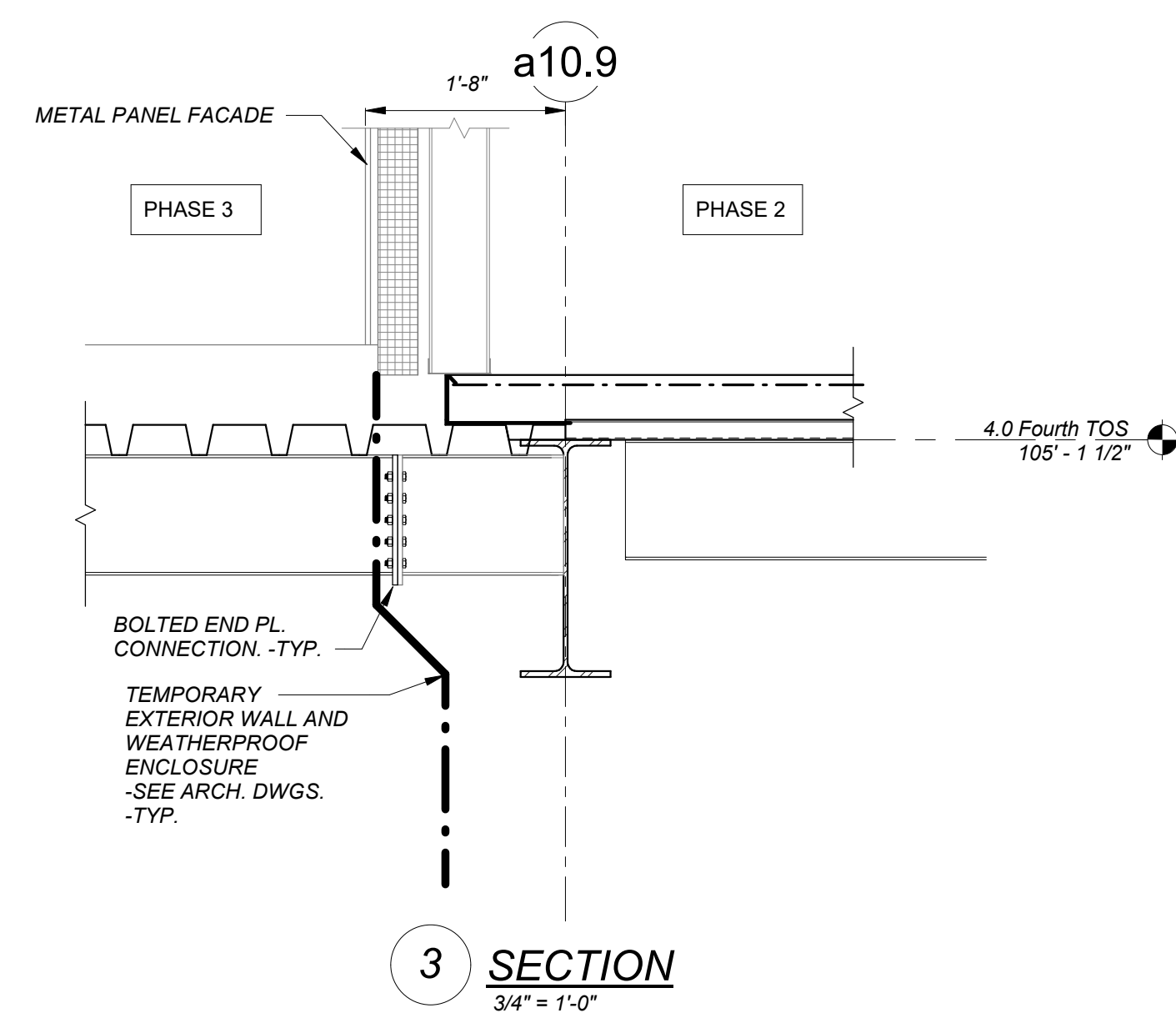
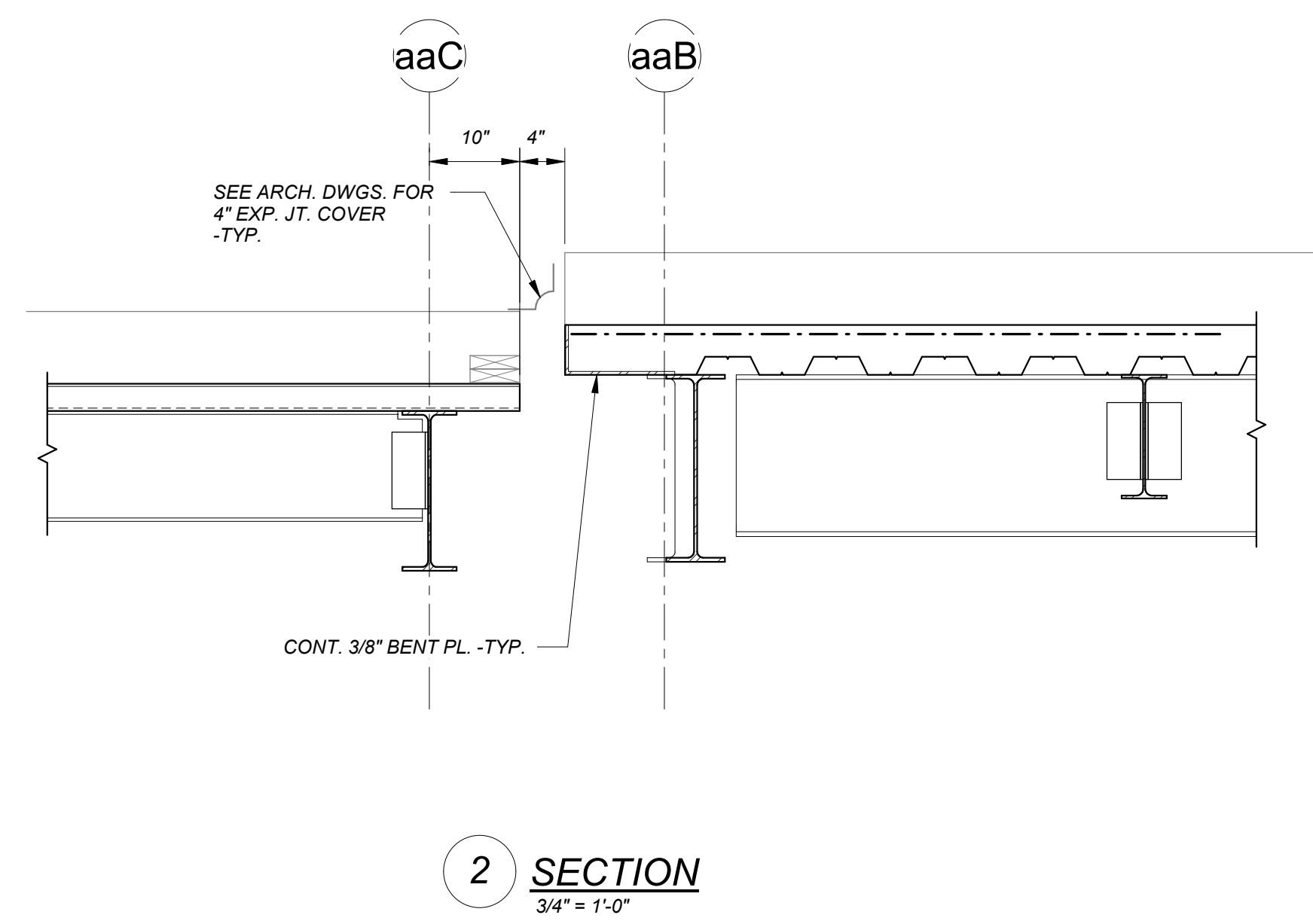
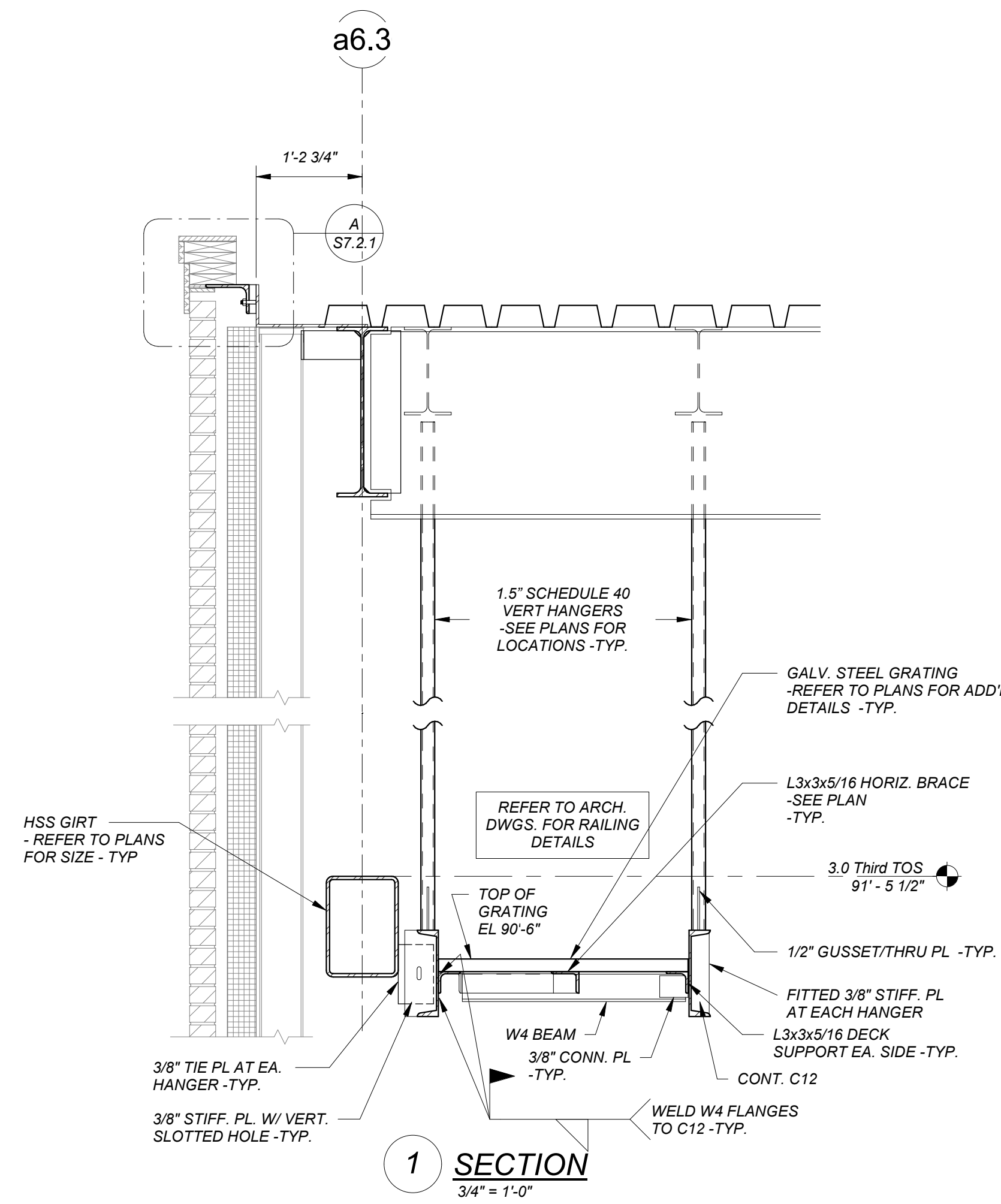
4 SECTION
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

DATE	REMARKS
VARIES	ASI
03/16/21	ASI 37

DRAWING NUMBER	JOB NUMBER
S7.2.5	2017172



DATE	REMARKS
VARIES	ASI
03/16/21	ASI 37



Change Request

To: Chris Weber
 Consigli Construction Co, Inc.
 72 Sumner Street
 Milford, MA 01757
 Ph: (508)473-2580 Fax: (508)478-5389

Number: CR112.1
Date: 3/7/22
Job: 2521 Arlington HS - Phase 2
Phone:

Description: ASI-037 - Various Revisions to Ph. 2-3 Concrete_Sub, 030722

Source: ASI # 037

We offer the following specifications and pricing to make the changes as described below:

CR112.1 includes Riggs Concrete (Ph. 2-4) costs associated with additional concrete and reinforcement scope at Building B & C foundations as outlined in ASI-037. Please see below and attached for breakdown and additional information.

Description	Labor	Material	Equipment	Subcontract	Other	Price
Form/Place/strip foundation walls (4'-8')	\$2,839.00					\$2,839.00
- ADD d2 wall 12"x6' 4Kpsi 139#/cy NO B.S. - 18LF						
Form/place/strip foundation walls (8'-12') - SUBTRACT d2 wall - 12"x9'6" 4Kpsi 139#/cy NO B.S. - -18LF	\$-4,945.00					\$-4,945.00
Concrete form rental - walls - SUBTRACT d2 wall - 12"x9'6" 4Kpsi 139#/cy NO B.S. - -342sfca			\$-342.00			\$-342.00
Concrete form rental walls - ADD d2 wall - 12"x6' 4Kpsi 139#/cy NO B.S. - 216sfca			\$216.00			\$216.00
Barker - CO#3				\$4,600.00		\$4,600.00
Rebar installation - foundations - SUBTRACT d2 wall - 12"x9'6" 4Kpsi 139#/cy NO B.S. - -.44ton @ \$1,350/ton				\$-594.00		\$-594.00
Rebar installation - foundations - ADD d2 wall - 12"x6' 4Kpsi 139#/cy NO B.S. - .28ton x \$1,350/ton				\$375.00		\$375.00
Rebar installation - SOD - Floor - 3,284 lf of #4 bar				\$1,566.00		\$1,566.00
Rebar installation SOD - Floor - #4 DB/DI's plain 3'				\$2,015.00		\$2,015.00
Concrete ready mix - Walls - (4,000psi) - SUBTRACT d2 wall - 12"x9'6" 4Kpsi 139#/cy NO B.S.		\$-811.00				\$-811.00
Concrete ready mix - Walls (4,000psi) - ADD d2 wall - 12"x6' 4Kpsi 139#/cy NO B.S.		\$512.00				\$512.00
Subtotal:						\$5,431.00
10% OH&P						\$543.10
Total:						\$5,974.10

- ☐ SCHEDULE IMPACT
- ☐ We have proceeded with this change to achieve schedule.
- ☐ As directed, we will not proceed with this change until formal direction from OWNER is received.

Riggs Contracting, Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com
 Hartford CT • Washington DC • Portland ME • Boston MA • Milford MA • Albany NY • New York NY • Pleasant Valley NY • Ronkonkoma NY

**Change Request**

To: Chris Weber
Consigli Construction Co, Inc.
72 Sumner Street
Milford, MA 01757
Ph: (508)473-2580 Fax: (508)478-5389

Number: CR112.1
Date: 3/7/22
Job: 2521 Arlington HS - Phase 2
Phone:

Riggs Contracting Inc.
CONTRACTOR
72 Sumner Street
Milford, MA 01757

OWNER

(Signature)

(Signature)

By

By

Date

Date



National Strength. Local Service.

Barker Steel LLC
30 LOCKBRIDGE STREET
PAWTUCKET, RI 02860 TEL. (401)724-9200 FAX (401)728-4148

September 3, 2021

RIGGS CONTRACTING INC.
72 SUMNER STREET
MILFORD, MA 01757

ATTN: Chris Weber

RE: Arlington High School Ph2&3
Arlington, MA
HARRIS REBAR CONTRACT 34015316 – CHANGE ORDER #3

Please be advised of the following:

CHANGE ORDER ADD:

Bid Item	Description	Pricing
BASE	ASI #37 – Phase 2&3 SOMD Revisions -Add approx. 1.0 ton rebar-black gr60 -Add approx. 130 set #4 DB/DI's plain (3'-0") -3 hours additional detailing/revision time	\$4,600.00 ✓

The terms and conditions of our original contract shall apply. The above does not include price adjustment or sales tax if applicable.

Please indicate your acceptance of this change order by signing and returning one copy of this letter to our office as soon as possible.

Very Truly Yours,

BARKER STEEL LLC

Mary Ellen Frongillo

Mary Ellen Frongillo, Construction Services

The above Change Order is accepted: RIGGS CONTRACTING

BY: _____ Date: _____

TO BARKER SALES: John Fairhurst

FROM BARKER CS: Mary-Ellen Frongillo

2153

CCC - CR112.1



CHANGE ORDER REPORT



ACTUAL



PROPOSED



STAND ALONE:

C.S. MANAGER: _____



BID ITEM: BASE

BKR CO#: 3

DATE: August 31, 2021

CUSTOMER: Riggs Contracting Inc

JOB NAME: Arlington HS PH 2, 3 & 6

CONTRACT # 34015316

ATTN: Chris Weber

Email: CWeber@consigli.com

DESCRIPTION OF CHANGE: ASI-37 Phase 2&3 Slab on Metal Deck Revisions

REL#: _____ BP ORDER #: _____ ON JOB DATE: _____ DETAILER: PRB

OWNER/CONTRACTOR REFERENCE NO.: ASI-37

CONTRACT DRAWING NO.: See list Below

DWG. DATE: 06/04/21

BARKER PLACING DRAWING NO.: _____

DWG. DATE: _____

EXPLANATION:

Several new details/sections were added around the different levels of Slab on Metal Deck for Areas A, B & C

Drawings: S1.0, S2.2b, S2.2c, S2.2d, S2.2e, S2.3b, S2.3c, S2.3d, S2.3e, S2.4a, S2.4b, S2.5b, S2.5d, S2.6b, S2.6d, S3.2, S4.3.3, S5.2.6, S6.2.5, S6.2.6, S6.2.7, S6.2.9, S7.2.1, S7.2.3, S7.2.4, S7.2.5, S7.2.6

GRADE: 60



Imperial



Metric

Additional Detailing Time: 3 Hrs.

SIZE	PLAIN			EPOXY COATED			OTHER:		
	ADD	DEDUCT		ADD	DEDUCT		ADD	DEDUCT	
#10/#3									LBS.
#13/#4	1,986								LBS.
#16/#5									LBS.
#19/#6									LBS.
#22/#7									LBS.
#25/#8									LBS.
#29/#9									LBS.
#32/#10									LBS.
#36/#11									LBS.
#43/#14									LBS.
#57/#18									LBS.
TOTAL:	1,986								LBS.

NET CHANGE	PLAIN: 1,986	EPOXY:	OTHER:	LBS.
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MISC PRODUCTS DESCRIPTION	QUANTITY	MISC PRODUCTS DESCRIPTION	QUANTITY
#4 Bar Splice DI x 3'-0" Long	130 pcs		
#4 Bar Splice Struct. Connector Cplr	130 pcs		

Change in scope of work referenced above is
acknowledged & approved by: _____

Customer's
P.O. # _____

Customer Representative's Signature

1/28/2013



Change Request

To: Jim Burrows
Skanska USA Building Inc.
253 Summer Street
Boston, MA 02210
Ph: 617-574-1524 Fax: 617-574-1399

Number: CR237
Date: 8/31/21
Job: 2153 Arlington High School
Phone:

Description: ASI-142 - Revisions to Locating Dims for Items on Exterior Elevation 6/A4.3.9 - Bldg. E_Sub. 030922

Source: ASI # 142

We offer the following specifications and pricing to make the changes as described below:

CR237 includes costs associated with ASI-142 - Revisions to Locating Dimensions for Items on Exterior Elevation 6/A4.3.9 Bldg. E dated 8/24/21 issued by HMFH, and later clarified in ASI-142.1 formalizing as built conditions from electrical devicing relocations coordinated in field with HMFH. WJGEI performed device relocations on T&M basis in order to maintain project schedule. Please see attached pricing and associated backup for additional information.

Assumptions & Qualifications:

- Costs associated with overtime/acceleration are not included

Description	Labor	Material	Equipment	Subcontract	Other	Price
WJGEI - Proposal #59 dated 10/26/21				\$763.28		\$763.28
					Subtotal:	\$763.28
			Bond (.75%)	\$763.28		\$5.72
			General Liability (1.2%)	\$763.28		\$9.16
			Subguard (1.4%)	\$763.28		\$0.00
			OH&P (5% subs, 10% self perform)	\$778.16		\$38.91
					Total:	\$817.07

☐ SCHEDULE IMPACT

☒ We have proceeded with this change to achieve schedule.

☐ As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT

Consigli Construction Co., Inc.

CONTRACTOR

72 Sumner Street

Milford MA 01757

OWNER

(Signature)

Arthur Duffy

By

03/09/2022

Date

(Signature)

John LaMarre

By

03/09/2022

Date

(Signature)

Jim Burrows

By

3/15/22

Date

Consigli Construction Co., Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com
Hartford CT • Washington DC • Portland ME • Boston MA • Milford MA • Albany NY • New York NY • Pleasant Valley NY • Ronkonkoma NY

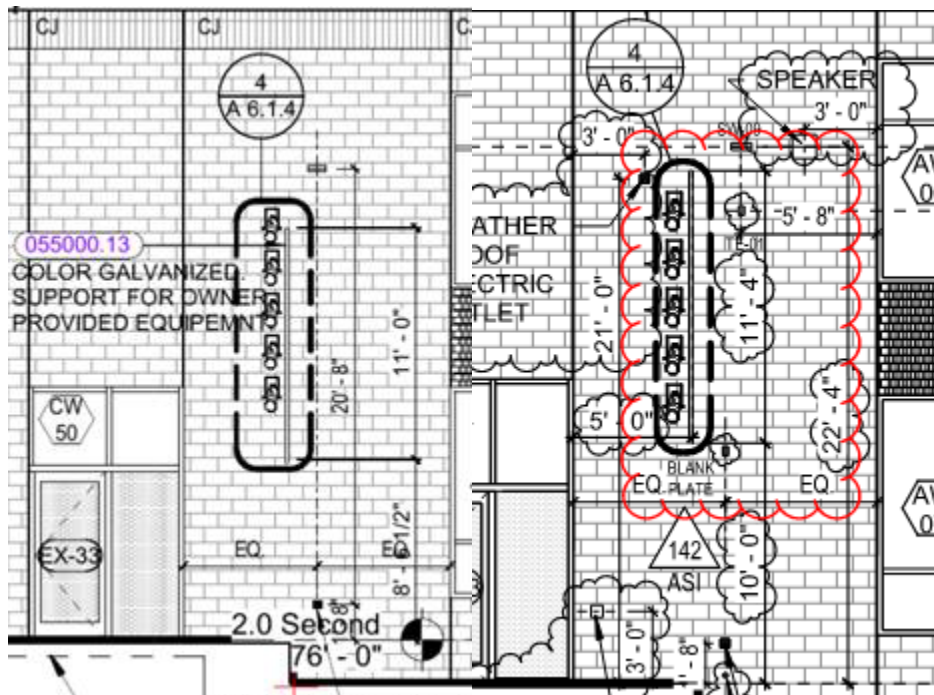
Weber, Chris

From: Weber, Chris
Sent: Tuesday, August 31, 2021 11:26 AM
To: Stephanie MacNeil; Arthur Duffy
Cc: Jim Burrows; Nguyen, Sy; Raymond, Hal; Clifford, Victoria; Alan Pemstein; Dockendorf, David; LaMarre, John; Samya, Kevin; McWilliams, Chuck; DeRosa, Thomas; Saunders, Mason
Subject: RE: ASI-142 device mounting on Elevation 6/A4.3.9 - Additional Clarification Required_CR237

Arthur/Stephanie,

A couple issues have been flagged regarding ASI-142 - Revision to locating dimensions for items on Exterior Elevation 6/A4.3.9 - Bldg. E dated 8/24/21.

- 1.) The blocking for the steel channel that houses the light fixtures has already been installed per the contact drawings (8'6" AFF) see left snippet of original 6/A4.3.9. Dimensions didn't change much on the western side, but on the east side they change by about 16" vertically in ASI-142 (right snippet below). Masonry has already been installed over the blocking. Please review and advise if blocking and channel position to remain as currently installed.







2.) ASI-142 has added additional electrical devices, SKE required, is this forthcoming as ASI-142.1?

At this time further clarification is needed in order to proceed with ASI-142 scope. We have assigned CR237 for tracking purposes. Thanks and please let me know if you have any questions.

Chris



Chris Weber
Project Manager
m: 774.573.4072
    consigli.com

From: Stephanie MacNeil <smacneil@hmfh.com>

Sent: Tuesday, August 24, 2021 9:54 PM

To: Arthur Duffy <aduffy@hmfh.com>; Weber, Chris <cweber@consigli.com>; Dockendorf, David <ddockendorf@consigli.com>; LaMarre, John <JLaMarre@consigli.com>; Samya, Kevin <ksamya@consigli.com>; McWilliams, Chuck <cmcwilliams@consigli.com>; DeRosa, Thomas <tderosa@consigli.com>

Cc: Jim Burrows <jim.burrows@skanska.com>; Nguyen, Sy <Sy.Nguyen@skanska.com>; Raymond, Hal <hal.raymond@skanska.com>; Clifford, Victoria <Victoria.Clifford@skanska.com>; Alan Pemstein <apemstein@hmfh.com>

Subject: RE: ASI-142 device mounting on Elevation 6/A4.3.9

Updated ASI 142 attached with revised sketch per discussion with Kevin S today.

Stephanie MacNeil AIA LEED AP

Associate | 617 844 2144

From: Arthur Duffy <aduffy@hmfh.com>

Sent: Tuesday, August 24, 2021 12:23 PM

To: Weber, Chris <cweber@consigli.com>; Dockendorf, David <ddockendorf@consigli.com>; JLaMarre@consigli.com; Samya, Kevin <ksamya@consigli.com>; McWilliams, Chuck <cmcwilliams@consigli.com>; DeRosa, Thomas <tderosa@consigli.com>

Cc: jim.burrows@skanska.com; Nguyen, Sy <Sy.Nguyen@skanska.com>; hal.raymond@skanska.com; Clifford, Victoria <Victoria.Clifford@skanska.com>; Stephanie MacNeil <smacneil@hmfh.com>; Alan Pemstein <apemstein@hmfh.com>

Subject: ASI-142 device mounting on Elevation 6/A4.3.9

Attached. Updates to device mounting on exterior Elevation 6/A4.3.9. Sketch SKA-126.

Note: please let us know which items may have been installed to date for review of items that may remain where/if installed.

As for the Cantenary Lights TE-01: review is needed with Griffin as to any necessary blocking within wall for cable support apparatus. I would anticipate a detail similar to what is used for the adjacent theatrical light poles. Item shown in intended to be the support item (plate-mounted eyebolt?). The electrical connection is presumed to be immediately adjacent or below.

Arthur Duffy AIA

Senior Associate | 617 844 2130

HMFH ARCHITECTS

130 Bishop Allen Drive, Cambridge, MA 02139 | 617.492.2200

[web](#) | [twitter](#) | [facebook](#) | [linkedin](#)

RECEIVED
08/24/21

CCC - CR237

H M
F H

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS _____

ASI: 142

date: 8.24.2021

subject: Revision to locating dimensions for items on Exterior Elevation 6/A4.3.9 - Bldg. E
~~Revision to steel column location at Part e District Admin entry~~

to: Chris Weber

from: Arthur Duffy

project id: 408417

project: Arlington High School

distribution: ☒ Skanska
☒ HMFH Architects

☒ Consigli
☐ Other:

reference: Drawing A4.3.9

attachments: Sketch SKA-126R

OFFICE. (617) 492 2200
FAX. (617) 876 9775

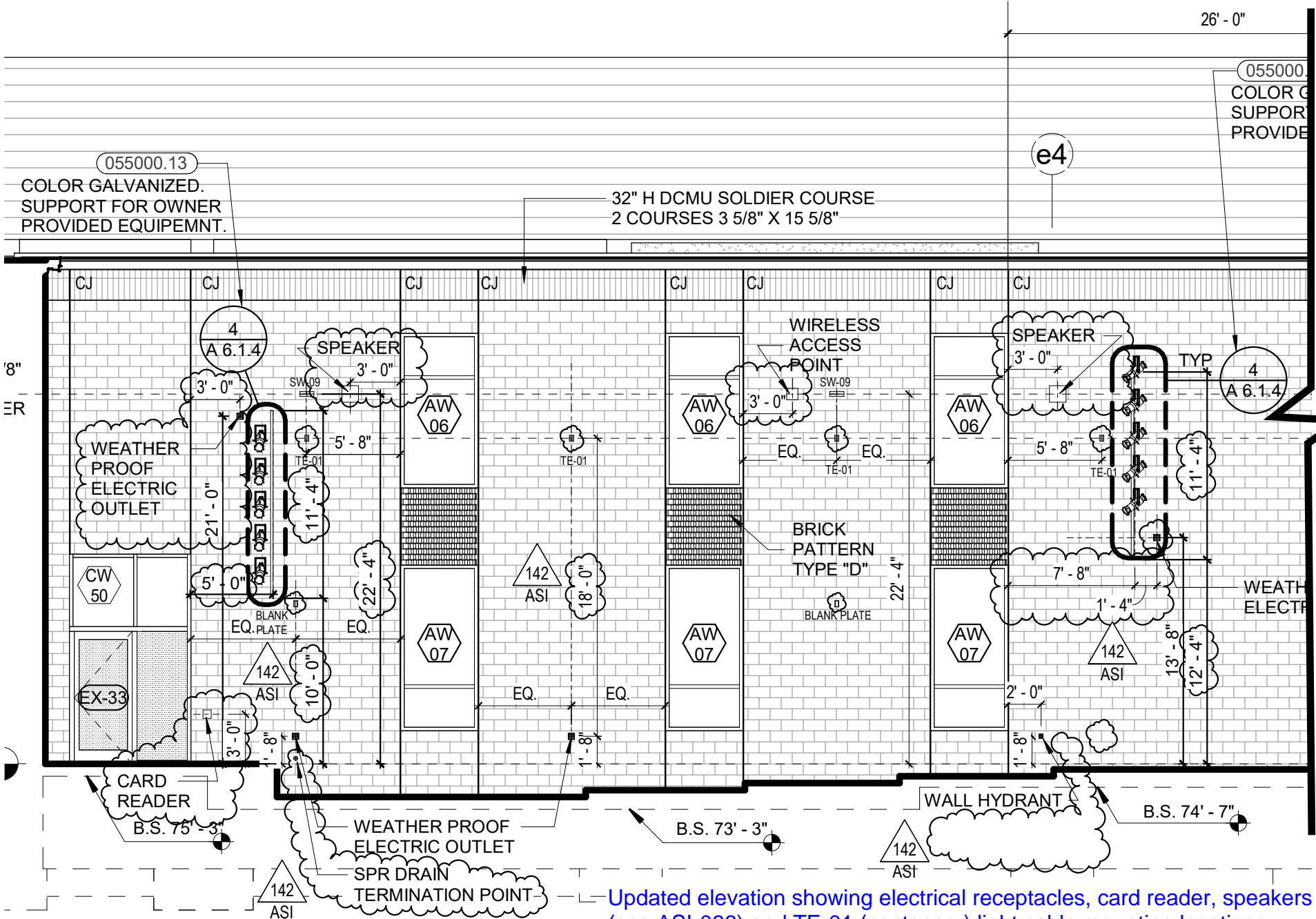
130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

The Work shall be carried out in accordance with the following Supplemental Instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change in the Contract Sum or Contract time.

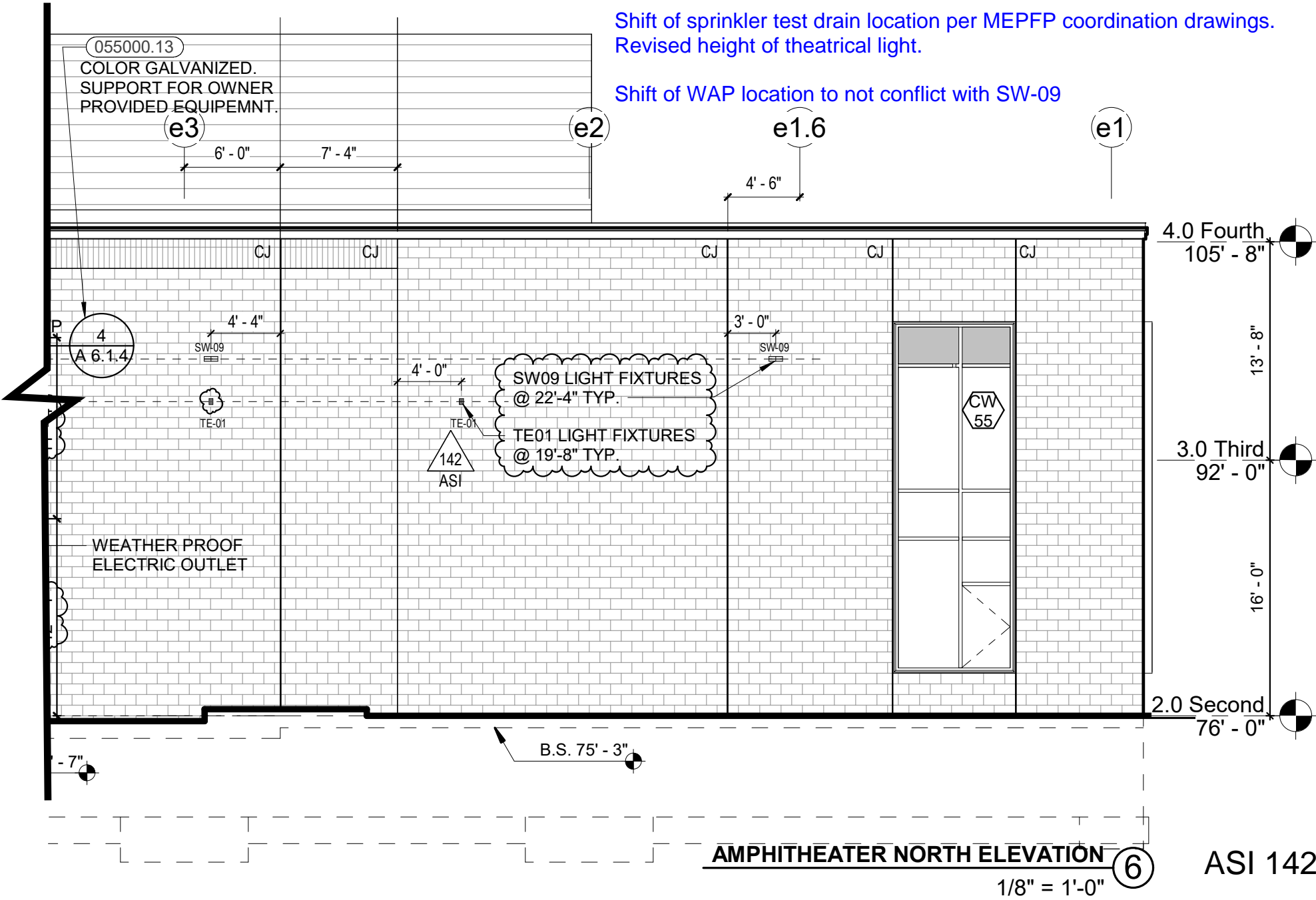
Revision to locating dimensions for items on Exterior Elevation 6/A4.3.9. See sketch SKA-126

UPDATED 08-24-21: SKA-126R issued as follow up per discussion with KS, AD, SM regarding where masonry work had already been installed.



Shift of sprinkler test drain location per MEPFP coordination drawings.
Revised height of theatrical light.

Shift of WAP location to not conflict with SW-09





INVOICE

116 Hopping Brook Road, Holliston, MA 01746
(508) 429-8830 FAX (508) 429-9251
MA LIC. A8999, 4536A1

MR. CHRIS WEBER
Sold To: CONSIGLI CONSTRUCTION COMPANY, INC.
72 SUMNER STREET
MILFORD, MA 01757

Work Done At: ARLINGTON HIGH SCHOOL
869 MASS AVENUE
ARLINGTON, MA 02476

JOB NO. 02698-00-20	PO Nbr	Terms Net 30 Days	PLEASE REMIT BY INVOICE NUMBER P0059	Invoice Date 10/25/2021
------------------------	--------	----------------------	---	----------------------------

DESCRIPTION OF WORK:

RE: Job#2698- Arlington High School
Proposal#P0059

As directed under ASI 142, provide labor services to modify device mounting to reflect revised exterior elevation drawings.

INVOICE TOTAL

763.28

Terms: Net 30 Days with 1.5% Interest on all Unpaid Balance over 30 days



**WAYNE J.
GRIFFIN ELECTRIC
INC.**

October 25, 2021

VIA EMAIL ONLY: cweber@consigli.com

Mr. Chris Weber, Project Manager
Consigli Construction Company, Inc.
72 Sumner Street
Milford, MA 01757

RE: Job #2698 - Arlington High School, Arlington, MA
Proposal #59

Dear Mr. Weber:

In accordance with the field change order signed by your authorized representative, the contract should be modified to include the following revision per our enclosed detailed backup:

DESCRIPTION OF WORK:

As directed under ASI 142, provide labor services to modify device mounting to reflect revised exterior elevation drawings.

The material pricing enclosed is based on industry recognized standardized unit rates obtained from R.S. Means, as agreed to for your review, approval and acceptance. The labor hours are as signed for and acknowledged by your on-site representative.

Total \$ 763.28 ✓

Please issue a written change order as the work above has been completed. The value included in this field change order does not include any amounts for changes in the sequence of work, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

If you have any questions regarding the above, please do not hesitate to contact me at (508) 306-5313 or wpease@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Wayne A. Pease
Senior Project Manager

WP/hat

ACKNOWLEDGMENT: The contract modifications stated for the above field change are acceptable for the work already performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: John LaMarre, Senior Project Manager, Consigli Construction Company, Inc.,
JLaMarre@consigli.com
George Gray, Project Engineer, Wayne J. Griffin Electric, Inc.
Jeremiah Kimball, Project Foreman, Wayne J. Griffin Electric, Inc.



CCN#: P-0059, ASI 142 Revised Device Mounting
Date: 10/19/2021
Project Name: Arlington High School
Project Number: 02698-00-20
Page Number: 1

116 Hopping Brook Road, Holliston, MA 01746
 (508) 429-8830 FAX (508) 429-9251

Work Description

As directed under ASI 142, provide labor services to modify device mounting to reflect revised exterior elevation drawings.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
Labor 8/24/21	1.00	0.0000	E	0.000	6.000	6.000
Phase Totals				0.00		6.00
	Totals			0.00		6.00
	Tax			0.00		
	Materials with Tax			0.00		

Summary

	Itemized Breakdown Total		0.00	
Electrical Journeyman	(6.0000 hrs @ \$88.42 / hr)	530.52		
			530.52	✓
Labor Burden	(\$530.52 @ 30.00%)	159.16		
		159.16		✓
Overhead & Profit	(\$689.68 @ 10.00%)	68.97		
		68.97		✓
Bond	(\$758.65 @ 0.61%)	4.63		
		4.63		✓
			232.76	✓
Total			\$763.28	✓

REF.

326



CONSIGLI

Est. 1905

SLIP TRACKING

Project Name	Arlington High School	Job# 2153	Date	8/24/21
--------------	-----------------------	-----------	------	---------

THIS DOCUMENT IS TO BE USED FOR TRACKING PURPOSES ONLY:

(This document is not intended to constitute as acceptance of additional work to the contract nor does this document infer that the contractor will be compensated for the work performed)

Contractor	WJGEI
Contractor (Foreman's Signature)	
Contractor Extra Work #	
Cost Code	CR237
Time Begin (Consigli Signature Required)	
Time Complete (Consigli Signature Required)	
Work Performed	Revisions to Device Monitoring Locations Per AGI-142
Manpower	(2) ELECTRICIANS (this)
Materials	N/A

FOR OFFICE USE ONLY

Comments	H-K SKANSKA 10/8/21		
Category (Check One)	<input type="checkbox"/> Internal	<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Backcharge
Status (Check One)	<input type="checkbox"/> Rejected	<input checked="" type="checkbox"/> Accepted	<input type="checkbox"/> Pending
Reference drawing or specification section:			

White: PM

Yellow: Contractor Copy

Pink: Remains

2015
RECEIVED
08/24/21

CCC - CR237

H M
F H

ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS_____

ASI: 142

date: 8/24/2021

Revision to locating dimensions for items on Exterior Elevation 6/A4.3.9 - Bldg. E

subject: ~~Revision to steel column location at Porte District Admin entry~~

to: Chris Weber

from: Arthur Duffy

project id: 408417

project: Arlington High School

distribution: ☒ Skanska

☒ HMFH Architects

☒ Consigli

☐ Other:

reference: Drawing A4.3.9

attachments: Sketch SKA-126R

OFFICE. (617) 492 2200
FAX. (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

The Work shall be carried out in accordance with the following Supplemental Instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change in the Contract Sum or Contract time.

Revision to locating dimensions for items on Exterior Elevation 6/A4.3.9. See sketch SKA-126

UPDATED 08-24-21: SKA-126R issued as follow up per discussion with KS, AD, SM regarding where masonry work had already been installed.



Change Request

To: Jim Burrows
Skanska USA Building Inc.
253 Summer Street
Boston, MA 02210
Ph: 617-574-1524 Fax: 617-574-1399

Number: CR243
Date: 9/23/21
Job: 2153 Arlington High School
Phone:

Description: Provisions for Utilizing Permanent Heat via Temp Power Service due to Evers - Ph. 1_Sub. 012622

Source: Other

We offer the following specifications and pricing to make the changes as described below:

*CR243R1 has been revised to include GR costs only associated with temporary equipment, fuel, etc. associated with CR243.
Subcontractor costs associated with CR243 are captured under separate cover (CR243A).

CR243 includes costs associated with utilizing permanent heating systems/equipment with temporary power provisions and alternative measures to provide power & heat in phase 1 buildings D&E due to Eversource permanent power not being provided until 11/19/21. Below is a summary of temporary provisions provided, as well as alternative measures performed prior to 11/19/21 to maintain construction schedule:

- Rental 350KVA Diesel Generators
- Diesel Fuel Costs for Generator and Temp Heaters
- Riggs (General Requirements) Diesel Heater Rental + Hoses
- WJGEI (Electrical):
 - o Install Temp power feed for HWP/CHWP to allow HVAC Contractor to energize and flush heating system
 - o Install temp feed to boiler pump for flushing of heating system
 - o Install branch power connections for (2) Temp Heaters
 - o Power to open fire smoke dampers for mechanical unit start up
- PJ Kennedy (HVAC):
 - o Rigging Eversource Transformers into place for Eversource
 - o Install temp electrical water heater to serve radiant slab heating system

Please see attached pricing and associated backup for additional information.

Assumptions & Qualifications:

- Costs associated with Overtime/Acceleration are not included
- Costs associated with temporary provisions after permanent power (11/19/21) in place due to supply chain issues are not included and will be submitted under separate cover (CR243.1)
- CCC has proceeded with this scope of work in order to maintain project schedule.

Description	Labor	Material	Equipment	Subcontract	Other	Price
Generator Rental - United Rentals Inv. dated 10/26/21, 11/23/21, 12/6/21				\$21,170.20		\$21,170.20
Mahoney - Fuel Invoice #336947				\$10,917.67		\$10,917.67
Mahoney - Fuel Invoice #337145				\$7,561.88		\$7,561.88
Riggs - Yard Rental Diesel Heaters				\$29,394.00		\$29,394.00
Mahoney - Fuel Invoice #336657				\$8,603.21		\$8,603.21
					Subtotal:	\$77,646.96
			Bond (.75%)	\$77,646.96		\$582.35
			General Liability (1.2%)	\$77,646.96		\$931.76
			Subguard (1.4%)	\$77,646.96		\$1,087.06
			OH&P (5% subs, 10% self perform)	\$80,248.13		\$4,012.41



Change Request

To: Jim Burrows
Skanska USA Building Inc.
253 Summer Street
Boston, MA 02210
Ph: 617-574-1524 Fax: 617-574-1399

Number: CR243
Date: 9/23/21
Job: 2153 Arlington High School
Phone:

Total: \$84,260.54

- ☐ SCHEDULE IMPACT
☒ We have proceeded with this change to achieve schedule.
☐ As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT

Consigli Construction Co., Inc.

CONTRACTOR
72 Sumner Street
Milford, MA 01757

OWNER

(Signature)

Arthur Duffy

By

03/10/2022

Date

(Signature)

John LaMarre

By

2/7/22

Date

(Signature)

Jim Burrows

By

3/15/22

Date

Consigli Construction Co., Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com
 Hartford CT • Washington DC • Portland ME • Boston MA • Milford MA • Albany NY • New York NY • Pleasant Valley NY • Ronkonkoma NY

Weber, Chris

From: LaMarre, John
Sent: Friday, November 12, 2021 3:55 PM
To: Jim Burrows
Cc: Arthur Duffy; Nguyen, Sy; Weber, Chris; Dockendorf, David; McWilliams, Chuck; DeRosa, Thomas; Jensen, Michael; Samya, Kevin
Subject: FW: ArlHS - Equipment Factory Startup Delay due to Permanent Power





Jim,
Today, 11/12, was the most recent revised "dead line" date for Eversource to provide permanent power to the project. That did not occur. Stating the obvious without power the schedule and project costs are being impacted and the work arounds currently in place, use of temporary heaters, generators and utilizing the temporary power transformer these sources will need to be increased to reduce the impact to the follow on work for e.g. scheduling of equipment startups performed by factory technicians, HVAC balancing, etc.,.

We will pursue the availability of the trailer size temporary generator we had on reserve and make arrangements to have it delivered to the site, this is based on that Eversource cannot commitment to a date when power will be available.

In early December a determination will have to be made if the school can be opened as planned, February vacation.

Sincerely,





John LaMarre
Senior Project Manager
m: 617.293.5296
    consigli.com

From: Samya, Kevin
Sent: Friday, November 12, 2021 2:09 PM
To: Jensen, Michael <MJensen@consigli.com>; Weber, Chris <cweber@consigli.com>; Dockendorf, David <ddockendorf@consigli.com>; LaMarre, John <JLaMarre@consigli.com>; McWilliams, Chuck <cmcwilliams@consigli.com>; DeRosa, Thomas <tderosa@consigli.com>; Condon, Patrick <PCondon@consigli.com>; Saunders, Mason <misaunders@consigli.com>; Mynter, Brandon <bmynter@consigli.com>
Cc: Martino, Scott <smartino@consigli.com>
Subject: RE: ArlHS - Equipment Factory Startup Delay due to Permanent Power

Just spoke to Bill at PJK and he has a new tentative date/confirmation for 11/22. He has that as a place holder for now, but I need to keep him posted early next week on whether or not we will have power. Apparently Eversource dropped off a spool of wire today without a crew, fingers crossed for next week.



Kevin Samya
Assistant M/E/P Manager
 m: 508.244.1698
    consigli.com

From: Jensen, Michael
Sent: Friday, November 12, 2021 8:07 AM
To: Samya, Kevin <ksamya@consigli.com>; Weber, Chris <cweber@consigli.com>; Dockendorf, David <ddockendorf@consigli.com>; LaMarre, John <JLaMarre@consigli.com>; McWilliams, Chuck <cmcwilliams@consigli.com>; DeRosa, Thomas <tderosa@consigli.com>; Condon, Patrick <PCondon@consigli.com>; Saunders, Mason <msaunders@consigli.com>; Mynter, Brandon <bmynter@consigli.com>
Cc: Martino, Scott <smartino@consigli.com>
Subject: RE: ArlHS - Equipment Factory Startup Delay due to Permanent Power

Kevin,

They had two weeks as you state below which had to have included Thanksgiving anyhow. Lets keep their original "second" week as the new "first" week.

We should still be able to get most of the week through thanksgiving. Should only loose Thursday maybe some Friday.



Michael Jensen
M/E/P Manager
 m: 774.278.0117
    consigli.com

From: Samya, Kevin <ksamya@consigli.com>
Sent: Friday, November 12, 2021 8:00 AM
To: Weber, Chris <cweber@consigli.com>; Dockendorf, David <ddockendorf@consigli.com>; LaMarre, John <JLaMarre@consigli.com>; McWilliams, Chuck <cmcwilliams@consigli.com>; DeRosa, Thomas <tderosa@consigli.com>; Condon, Patrick <PCondon@consigli.com>; Saunders, Mason <msaunders@consigli.com>; Mynter, Brandon <bmynter@consigli.com>
Cc: Martino, Scott <smartino@consigli.com>; Jensen, Michael <MJensen@consigli.com>
Subject: ArlHS - Equipment Factory Startup Delay due to Permanent Power

All,

Due to Eversource not being onsite this week to provide Permanent Power we had to re-schedule the Factory Equipment Startup for the rooftop equipment. We anticipated permanent power being available today, and as of right now the earliest we will have power is EOD Tuesday (11/16) assuming Eversource is onsite Monday (11/15). Eversource will need at least (2) working days to complete the work and get (1) transformer energized.

That being said, PJ Kennedy had to cancel the (2) scheduled startup dates for next week that were scheduled for (11/15) and (11/17) for HRU-4 (South Side of Building D Levels 2 to 5), HRU-5 (North Side of Building D Levels 2 to 5), and ACHP-1/ACHP-2 (Hot and Chilled Water for Building D and E). We have been in contact with PJ Kennedy proposing week of 11/22, but with Thanksgiving that week it is unlikely at this time. PJ Kennedy is going to confirm whether or not that is a possibility, and I will keep everyone posted. The factory reps need a minimal of 2-weeks notice to accommodate the request. The earliest I anticipate the roof top equipment being started up is the week of (11/29).

Let me know if you have any questions.

Regards,



Kevin Samya
Assistant M/E/P Manager
m: 508.244.1698
    consigli.com

Weber, Chris

From: Dockendorf, David
Sent: Tuesday, September 21, 2021 2:24 PM
To: Jim Burrows
Cc: Nguyen, Sy; Arthur Duffy; Lori Cowles; LaMarre, John; McWilliams, Chuck; Weber, Chris; Samya, Kevin; Martino, Scott; DeRosa, Thomas
Subject: ArlHS - Permanent Heat used in a temp manner ROM NOC
Attachments: Permanent Heating System Via Temporary Sources Fall 2021 (9-9-21).pdf

Jim,
 We have always been planning on utilizing the permanent heating systems for heat during construction use during the fall/winter. The permanent power had been planned on being available for this plan to work.

Since this power source is not available, we have reviewed options for alternate measures to provide power & heat. The current option we are purposing is to utilize (2) 350kW generators and (1) trailer boiler with steam heat exchanger and temporarily tie into the permanent systems within the building (Air terminal unit's, refrigerant FCU's, and associated equipment).

Implementing this plan would require the following detailed scope:

- Single time costs:
 - Labor/material to install temp measures (piping/wiring, etc.) and removal \$33,000 (single time cost)
- Monthly costs:
 - (2) 350kW generators (\$15,000/month each) = \$30,000/month
 - (1) trailer boiler with steam heat exchange \$15,000/month
 - Fuel consumption per month (approximated, depending on load) \$4,500/month

ROM

Summary: First month costs = \$82,500
 Second month (and each month after) costs = \$49,500/month

We've attached our detailed plan. If any questions arise, we can discuss further.

Thanks,
 Dave



David Dockendorf, LEED AP, CM-Lean
Project Manager
 t: 774-217-0575 | m: 774-217-0575
 consigli.com

United Rentals

POWER & HVAC
BRANCH G34
159A MEMORIAL DRIVE
SHREWSBURY MA 01545
508-845-3710
508-845-2787 FAX

4 WEEK BILLING
INVOICE

198793192-002

CCG- CR243R1

Job Site

ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON MA 02476-4701

Office: 508-473-2580 Cell: 508-962-2237

CONSIGLI CONSTRUCTION CO INC
72 SUMNER ST
ATTN:ACCOUNTS PAYABLE
MILFORD MA 01757-1663

Customer # : 340771
Invoice Date : 10/26/21
Date Out : 10/04/21 09:00 AM
Billed Through : 11/01/21 00:00
UR Job Loc : 869 MASSACHUSETTS AV
UR Job # : 192
Customer Job ID:
P.O. # : 9159
Requested By : MATT LYONS
Approved By : MATT LYONS
Salesperson : KEITH ANDERSON

Invoice Amount: \$13,268.50

Terms: Due Upon Receipt
Payment options: Contact our credit office 784-916-4858
REMIT TO: UNITED RENTALS (NORTH AMERICA),INC.
PO BOX 100711
ATLANTA GA 30384-0711

RENTAL ITEMS:

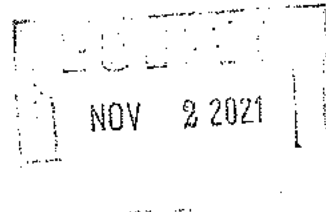
Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10265308	GENERATOR 350-399 KVA Make: CUMMINS Model: C300D6RG Serial: D140665529 Meter out: 13358.00 PM SERVICES WILL BILL AT \$800 EVERY 250 HRS	1,800.00	1,800.00	1,800.00	5,500.00	5,500.00
1	10417046	GENERATOR 350-399 KVA Make: CUMMINS Model: C300D6R WOG Serial: D150826400 Meter out: 10398.00 PM SERVICES WILL BILL AT \$800 EVERY 250 HRS	1,800.00	1,800.00	1,800.00	5,500.00	5,500.00
16	241/7662	CABLE 4/0 AWG 400 AMP 50' CAM AGAINST CAT & SB		25.00	25.00	74.00	1,184.00
16	241/5970	CABLE TAIL 4/0 MCAM BARE END		3.00	6.00	19.00	304.00
Rental Subtotal:							12,488.00
Agreement Subtotal:							12,488.00
Tax:							400.50
Total:							13,268.50

COMMENTS/NOTES:

CONTACT: CHUCK MCWILLIAMS
CELL#: 508-962-2237

Billing period: 28 Days From 10/04/21 09:00 AM Thru 11/01/21 09:00 AM

ARE YOU OR YOUR EMPLOYEES IN NEED OF OPERATOR CERTIFICATION TRAINING?
CONTACT UNITED ACADEMY TODAY 844-222-2345 OR WWW.UNITEDACADEMY.UR.COM
TRAINING IS NOT AVAILABLE ON CERTAIN EQUIPMENT IN CANADA.



Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

United Rentals

POWER & HVAC
BRANCH 034
169A MEMORIAL DRIVE
CHRWISBURY MA 01545
508-845-3710
508-845-2787 FAX

4 WEEK BILLING INVOICE

198793192-004

Job Site

ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON MA 02476-4701

Office: 508-473-2580 Cell: 508-962-2237

Customer # : 340771
Invoice Date : 11/23/21
Date Out : 10/04/21 09:00 AM
Billed Through : 11/29/21 00:00
UR Job Loc : 869 MASSACHUSETTS AV
UR Job # : 192
Customer Job ID:
P.O. # : 9159
Requested By : MATT LYONS
Approved By : MATT LYONS
Salesperson : KEITH ANDERSON

CONSIGLI CONSTRUCTION CO INC
72 SUMNER ST
ATTN:ACCOUNTS PAYABLE
MILFORD MA 01757-1663

DEC 6 2021

Invoice Amount: \$6,634.25

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4856
REMIT TO: UNITED RENTALS (NORTH AMERICA),INC.
PO BOX 100711
ATLANTA GA 30384-0711

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10417046	GENERATOR 350-399 KVA Make: CUMMINS Model: C300D6R WOG Serial: D150826400 Meter out: 10398.00 Meter in: .00 PM SERVICES WILL BILL AT \$600 EVERY 250 HRS	1,600.00	1,800.00	1,800.00	5,500.00	5,500.00
8	241/7662	CABLE 4/0 AWG 400 AMP 50' CAM AGAINST CAT & SB		25.00	25.00	74.00	592.00
8	241/5970	CABLE TAIL 4/0 MCAM BARE END EQUIP# TBD CATALYST#		3.00	6.00	19.00	152.00

Rental Subtotal: 6,244.00
Agreement Subtotal: 6,244.00
Tax: 390.25
Total: 6,634.25

COMMENTS/NOTES:

CONTACT: CHUCK MCWILLIAMS
CELL#: 508-962-2237

Billing period: 28 Days From 11/01/21 09:00 AM Thru 11/29/21 09:00 AM

ARE YOU OR YOUR EMPLOYEES IN NEED OF OPERATOR CERTIFICATION TRAINING?
CONTACT UNITED ACADEMY TODAY
844-222-2345 OR WWW.UNITEDRENTALS.COM/TRAINING

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-UE> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

United Rentals

POWER & HVAC
BRANCH G34
169A MEMORIAL DRIVE
SARASOTA FL 34237
508-845-3710
508-845-2787 FAX

RENTAL RETURN INVOICE

ICC - CR243R1

198793192-005

Job Site

ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON MA 02476-4701

Office: 508-473-2580 Cell: 508-962-2237

CONSIGLI CONSTRUCTION CO INC
72 SUMNER ST
ATTN:ACCOUNTS PAYABLE
MILFORD MA 01757-1663

Customer # : 340771
Invoice Date : 12/06/21
Rental Out : 10/04/21 09:00 AM
Rental In : 12/03/21 08:41 AM
UR Job Loc : 869 MASSACHUSETTS AV
UR Job # : 192
Customer Job ID:
P.O. # : 9159
Requested By : MATT LYONS
Approved By : MATT LYONS
Salesperson : KEITH ANDERSON

Invoice Amount: \$2,176.00

Terms: Due Upon Receipt
Payment options: Contact our credit office 704-916-4858
REMIT TO: UNITED RENTALS (NORTH AMERICA), INC.
PO BOX 100711
ATLANTA GA 30384-0711

RENTAL ITEMS:

Qty	Equipment	Description	Minimum	Day	Week	4 Week	Amount
1	10417045	GENERATOR 350-399 KVA Make: CUMMINS Model: C300D6R WOG Serial: D150826400 Meter out: 10398.00 Meter in: 10487.00 PM SERVICES WILL BILL AT \$800 EVERY 250 HRS	1,800.00	1,800.00	1,800.00	5,500.00	1,800.00
8	241/7662	CABLE 4/0 AWG 400 AMP 50' CAM AGAINST CAT & SB		25.00	25.00	74.00	200.00
8	241/5970	CABLE TAIL 4/0 MCAM BARE END EQUIP# TBD CATALYST#		3.00	6.00	19.00	48.00

Rental Subtotal: 2,048.00
Agreement Subtotal: 2,048.00
Tax: 128.00
Total: 2,176.00

COMMENTS/NOTES:

CONTACT: CHUCK MCWILLIAMS
CELL#: 508-962-2237

Final Bill: 4 Days From 11/29/21 09:00 AM Thru 12/03/21 08:41 AM

ARE YOU OR YOUR EMPLOYEES IN NEED OF OPERATOR CERTIFICATION TRAINING?
CONTACT UNITED ACADEMY TODAY
844-222-2345 OR WWW.UNITEDRENTALS.COM/TRAINING

DEC 13 2021

Effective January 1, 2021 and where permitted by law, United Rentals may impose a surcharge of 1.8% for credit card payments on charge accounts. This surcharge is not greater than our merchant discount rate for credit card transactions and is subject to sales tax in some jurisdictions.

NOTICE: This invoice is subject to the terms and conditions of the Rental and Service Agreement, which are available at <https://www.unitedrentals.com/legal/rental-service-terms-US> and which are incorporated herein by reference. A COPY OF THE RENTAL AND SERVICE AGREEMENT TERMS ARE AVAILABLE IN PAPER FORM UPON REQUEST.

CCC - CR243R1



<i>Date</i>	11/15/2021
<i>Invoice #</i>	336947

Belmont Energy Corporation
d/b/a Mahoney Oil
42 Brighton St.
Belmont, MA 02478
Phone: (617)484-0888
Fax: (617)489-4202
Website: www.mahoneyoil.com

Bill To		Ship To			
Consigli Construction Co., Inc 72 Sumner St. Milford, MA 01757					
		NOV 28 2021			
Job Number/Name		Terms	Due Date	Account #	P.O. Number
Arlington HS		Net 15	11/30/2021	0168	
Date	Ticket #	Description	Gallons	Price/Gallon	Amount
11/8/2021	2040323	Off Road Diesel	855.6	3.57	3,054.49
11/9/2021	5049393	Off Road Diesel	294.9	3.58	1,055.74
11/10/2021	7385400	Off Road Diesel	542.4	3.62	1,963.49
11/12/2021	1881713	Off Road Diesel	701	3.56	2,495.56
11/13/2021	222400	Off Road Diesel	547.3	3.56	1,948.39
		Saturday Delivery Charge		400.00	400.00
			Subtotal	\$10,917.67	
			Sales Tax (6.25%)	\$0.00	
			Total	\$10,917.67	
ON-SITE FUELING * FLEET REFUELING * ONROAD DIESEL * OFFROAD DIESEL * STORAGE TANK RENTALS					

MAHONEY
OIL
ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 2040323

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD, MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyeed ULSD. Non
-road or tax exempt use only

OFF ROAD DIESEL

Drvr: 30 Trk: 36

Bill Name Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/08/21 STIME 13:49

SALE# 019159

GALLONS START 0.0

GALLONS FINISH 00855.6

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 12% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY
OIL
ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 5049393

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD, MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyeed ULSD. Non
-road or tax exempt use only

OFF ROAD DIESEL

Drvr: 30 Trk: 36

Bill Name Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/09/21 STIME 13:23

SALE# 019170

GALLONS START 0.0

GALLONS FINISH 00294.9

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 12% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 7385400

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD, Non
-road or tax exempt use only

OFF ROAD DIESEL

Drvr: 30 Trk: 36

Bill Name: Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/10/21 STIME 13:44

SALE# 019190

GALLONS START 0.0

GALLONS FINISH 00542.4

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 1881713

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD, Non
-road or tax exempt use only

OFF ROAD DIESEL

Drvr: 30 Trk: 36

Bill Name: Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/12/21 STIME 12:03

SALE# 019215

GALLONS START 0.0

GALLONS FINISH 00701.0

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY

OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 2222400

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD, MA 01757

DELIVERY:
BRIGHTON HIGH SCHOOL
100 MASSACHUSETTS AVE
BRIGHTON, MA 02478

47-ppm Sulfur Diesel (U.S.D. Non
-road or tax exempt use only)

OFF ROAD DIESEL

Drvr: 29

Trk: 31

Bill Name: Consigli

DATE 11/13/21 STIME 13:18

SALE # 016073

GALLONS START 0.0

GALLONS FINISH 00547.3

OFF ROAD DIESEL

SATURDAY = \$400

TERMS: NET 30. A late payment finance charge of 1 1/2% per month (Annual Percentage Rate of 18%) will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

Date	11/22/2021	Belmont Energy Corporation d/b/a Mahoney Oil 42 Brighton St. Belmont, MA 02478 Phone: (617)484-0888 Fax: (617)489-4202 Website: www.mahoneyoil.com
Invoice #	337145	

Bill To	Ship To
Consigli Construction Co., Inc. 72 Sumner St. Milford, MA 01757	

Job Number/Name	Terms	Due Date	Account #	P.O. Number
Arlington HS	Net 15	12/7/2021	0168	

Date	Ticket #	Description	Gallons	Price/Gallon	Amount
11/15/2021	9062587	Off Road Diesel	815.8	3.52	2,871.62
11/16/2021	2043400	Off Road Diesel	196.4	3.52	691.33
11/17/2021	13945	Off Road Diesel	399.3	3.54	1,413.52
11/18/2021	14061	Off Road Diesel	318.7	3.52	1,121.82
11/19/2021	14178	Off Road Diesel	9	3.54	31.86
		Delivery charge under 50 gallons		100.00	100.00
11/20/2021	14278	Off Road Diesel	263.2	3.54	931.73
		Saturday Delivery Charge		400.00	400.00

Subtotal	\$7,561.88
Sales Tax (6.25%)	\$0.00
Total	\$7,561.88

ON-SITE FUELING * FLEET REFUELING * ONROAD DIESEL * OFFROAD DIESEL * STORAGE TANK RENTALS

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 9062587

ACCT: 0168
LOC: 09

BILLING:

CONSIGLI

72 SUMNER ST.
MILFORD MA 01757

DELIVERY:

ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD. Non
-road or tax exempt use onl

8

OFF ROAD DIESEL

Drvr: 30

Trk: 36

Bill Name Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/15/21 STIME 12:49

SALE# 019233

GALLONS START 0.0

GALLONS FINISH 00815.8

OFF ROAD DIESEL

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 2043400

ACCT: 0168
LOC: 09

BILLING:

CONSIGLI

72 SUMNER ST.
MILFORD MA 01757

DELIVERY:

ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD. Non
-road or tax exempt use onl

8

OFF ROAD DIESEL

Drvr: 30

Trk: 36

Bill Name Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/16/21 STIME 13:02

SALE# 019249

GALLONS START 0.0

GALLONS FINISH 00196.4

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 13945

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD, MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-ppm Sulfur Dyed ULSD, Non
-road or tax exempt use onl

OFF ROAD DIESEL
Drvr: 30 Trk: 36

Bill Name: Consigli
TRUCK# 0036 DRIVER# 0000
DATE 11/17/21 STIME 13:25
SALE# 019209
GALLONS START 0.0
GALLONS FINISH 00399.3
OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 14061

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD, MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-ppm Sulfur Dyed ULSD, Non
-road or tax exempt use onl

OFF ROAD DIESEL
Drvr: 30 Trk: 36

Bill Name: Consigli
TRUCK# 0036 DRIVER# 0000
DATE 11/18/21 STIME 12:15
SALE# 019279
GALLONS START 0.0
GALLONS FINISH 00318.7
OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 14178

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD. Non
-road or tax exempt use only

OFF ROAD DIESEL
Drvr: 30 Trk: 36
Bill Name: Consigli
TRUCK# 0036 DRIVER# 0000
DATE 11/19/21 STIME 13:18
SALE# 019299
GALLONS START 0.0
GALLONS FINISH 00009.0
OFF ROAD DIESEL

UNDER SD = \$100

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 14278

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD. Non
-road or tax exempt use only

OFF ROAD DIESEL
Drvr: 27 Trk: 47
Bill Name: Consigli
TRUCK# 0047 DRIVER# 0000
DATE 11/20/21 STIME 12:15
DATE 11/20/21 FTIME 12:33
SALE # 000039
GALLONS START 0.0
GALLONS FINISH 00263.2
OFF ROAD DIESEL

SATURDAY = \$400

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.



Change Request

To:

Number: CR243

Date: 11/18/21

Job: 2153 Arlington High School

Phone:

Description: Provisions for Utilizing Permanent Heat via Temp Power Service - Ph. 1

We offer the following specifications and pricing to make the changes as described below:

1-340 - Heater Hose Rentals starting October 21

Description	Labor	Material	Equipment	Subcontract	Other	Price
Rental for Temp Heaters & Hoses			\$29,394.00			\$29,394.00
					Subtotal:	\$29,394.00
					Total:	\$29,394.00

☐ SCHEDULE IMPACT

☒ We have proceeded with this change to achieve schedule.

☐ As directed, we will not proceed with this change until formal direction from OWNER is received.

Riggs Contracting Inc.

CONTRACTOR

72 Sumner Street

Milford, MA 01757

OWNER

(Signature)

(Signature)

By

By

Date

Date

Riggs Contracting, Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com

Hartford CT • Washington DC • Portland ME • Boston MA • Milford MA • Albany NY • New York NY • Pleasant Valley NY • Ronkonkoma NY

1500 Riggs

Includes transactions from 11-01-2021 to 11-30-2021

Type of Work: Standard

Cost	Tran	Employee Name/			Accounting			Standard
<u>Code</u>	<u>Cat</u>	<u>Type</u>	<u>Vendor Name</u>	<u>Emp/Equip/Vendor</u>	<u>PayID/Invoice/Equip</u>	<u>Date</u>	<u>Units</u>	<u>Rate</u>
Extra	2153	-	Arlington Hgh Sch					Cost
1-340	O	Other	Cnsgl Cnstrct Co, In.	51209	DHTR-2153-9369	11-16-2021		16,800.00
1-340	O	Other	Cnsgl Cnstrct Co, In.	51209	HTR-2153-9503	11-29-2021		5,684.00
1-340	O	Other	Cnsgl Cnstrct Co, In.	51209	HTR-2153-9524	11-30-2021		2,842.00
1-340	Z	Equipmnt		840	Heater Hoses	11-01-2021	48.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-02-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-03-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-04-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-05-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-08-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-09-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-10-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-12-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-15-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-16-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-17-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-18-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-19-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-22-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-23-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-24-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-26-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-29-2021	120.00	1.50
1-340	Z	Equipmnt		840	Heater Hoses	11-30-2021	120.00	1.50
1340 Snow removal Totals:							2,328.00	28,818.00

2153

CCC - CR243R1



Order Number 9369

**RECEIPT**

Customer's Name
2153 Arlington High School
From Date/Time
October 19, 2021 07:51
Cost Code
R 1-340

Order Location
To Date/Time
November 16, 2021 07:50

Item #	Item Name	Duration/Quantity	Price
01-0013-0000	Diesel Heaters	1 Month	\$5,600.00
01-0013-0001	Diesel Heaters	1 Month	\$5,600.00
01-0013-0002	Diesel Heaters	1 Month	\$5,600.00
766	Heater Hose	1 Month / 6 Items	\$0.00
2266	Flagro Thermostat	/ 3 Items	\$0.00

Item Sub-Total	\$16,800.00
Net Amount (Before Tax)	\$16,800.00
Total	\$16,800.00
Payable Amount	\$16,800.00

2153

CCC - CR243R1



Order Number 9503

**RECEIPT****Customer's Name**
2153 Arlington High School**From Date/Time**
November 01, 2021 12:13**Cost Code**
R 1-340**Order Location****To Date/Time**
November 29, 2021 12:12

Item #	Item Name	Duration/Quantity	Price
766	Heater Hose	1 Month / 4 Items	\$0.00
01-0013-0015	Diesel Heaters	1 Month	\$2,842.00
01-0013-0016	Diesel Heaters	1 Month	\$2,842.00
Item Sub-Total			\$5,684.00
Net Amount (Before Tax)			\$5,684.00
Total			\$5,684.00
Payable Amount			\$5,684.00

2153

CCC - CR243R1



Order Number 9524

**RECEIPT****Customer's Name**

2153 Arlington High School

From Date/Time

November 02, 2021 11:00

Cost Code

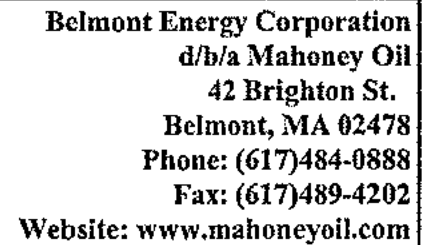
R 1-340

Order Location**To Date/Time**

November 30, 2021 10:59

Item #	Item Name	Duration/Quantity	Price
01-0013-0010	Diesel Heaters	1 Month	\$2,842.00
766	Heater Hose	1 Month / 5 Items	\$0.00

Item Sub-Total	\$2,842.00
Net Amount (Before Tax)	\$2,842.00
Total	\$2,842.00
Payable Amount	\$2,842.00



Bill To			Ship To		
Consigli Construction Co., Inc. 72 Sumner St. Milford, MA 01757			NOV 17 2021		
Job Number/Name		Terms	Due Date	Account #	P.O. Number
Arlington HS		Net 15	11/23/2021	0168	
Date	Ticket #	Description	Gallons	Price/Gallon	Amount
11/1/2021	7154647	Off Road Diesel	799.6	3.59	2,870.56
11/3/2021	4777793	Off Road Diesel	227.3	3.62	822.83
11/5/2021	8966273	Off Road Diesel	847	3.55	3,006.85
11/6/2021	9245050	Off Road Diesel	421	3.57	1,502.97
		Saturday Delivery Charge		400.00	400.00
</					

MAHONEY OIL ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 7154647

ACCT: 0168
LOC: 09

BILLING
CONSIST
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD. Non
-road or tax exempt use only

OFF ROAD DIESEL

Drvr: 30

Trk: 36

Bill Name: Consign

TRUCK# 0036 DRIVER# 0000

DATE 11/01/21 STIME 10:52

SALE# 019088

GALLONS START 0.0

GALLONS FINISH 00799.6

OFF ROAD DIESEL

OIL ON SITE FUELING

(617) 484-0888
CCC-CR243R1
(617) 489-0888

TICKET / INVOICE # 4777793

ACCT: 0168
LOC: 09

BILLING
CONSIST
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-PPM Sulfur Dyed ULSD. Non
-road or tax exempt use only

OFF ROAD DIESEL

Drvr: 27

Trk: 29

Bill Name: Consign

DATE 11/03/21 STIME 11:42

SALE# 023028

GALLONS START 0.0

GALLONS FINISH 00227.3

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1.2% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

TERMS: NET 30. A late payment Finance Charge of 1.2% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 8968273

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-ppm Sulfur Dyed ULSD. Non
-road or tax exempt use oil

OFF ROAD DIESEL

Drvr: 27 Trk: 36

Bill Name Consigli

TRUCK# 0036 DRIVER# 0000

DATE 11/05/21 STIME 12:46

SALE# 019138

GALLONS START 0.0

GALLONS FINISH 00847.0

OFF ROAD DIESEL

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.

MAHONEY OIL

ON SITE FUELING

42 BRIGHTON ST.
BELMONT, MA 02478
(617) 484-0888
(617) 489-0888

TICKET / INVOICE # 9245050

ACCT: 0168
LOC: 09

BILLING:
CONSIGLI
72 SUMNER ST.
MILFORD MA 01757

DELIVERY:
ARLINGTON HIGH SCHOOL
869 MASSACHUSETTS AVE
ARLINGTON 02476

15-ppm Sulfur Dyed ULSD. Non
-road or tax exempt use oil

OFF ROAD DIESEL

Drvr: 33 Trk: 46

Bill Name Consigli

TRUCK# 0000 DRIVER# 0000

DATE 11/06/21 STIME 09:58

DATE 11/06/21 FTIME 10:14

SALE # 000515

GALLONS START 0.0

GALLONS FINISH 00421.0

OFF ROAD DIESEL

SATURDAY = \$400

TERMS: NET 30. A late payment Finance Charge of 1% per month (Annual Percentage Rate of 18%)
will be made on all amounts which remain unpaid after the monthly closing date.



Change Request

To: Jim Burrows
Skanska USA Building Inc.
253 Summer Street
Boston, MA 02210
Ph: 617-574-1524 Fax: 617-574-1399

Number: CR277
Date: 11/1/21
Job: 2153 Arlington High School
Phone:

Description: RFI-548 - F&I Added Electrical Jockey Pump/Controller_Sub.030922

Source: RFI # 548

We offer the following specifications and pricing to make the changes as described below:

CR277 includes costs associated with RFI-548 - Jockey Pump and Controller Electrical Circuitry (Building E) response dated 10/26/21 issued by HMFH. Per RFI electrical drawings do not identify circuitry and panel designation for the Jockey pump and controller in fire pump room S2-18. Per RFI Response, WJGEI furnished & installed new 20A/3pole breaker in panel EHLR2E, provided 4#12, 1#12G, & 3/4"C from panel EHLR2E to controller, and all required wiring between controller and pump. Please see attached pricing and associated backup for additional information.

Assumptions & Qualifications:

- CCC has proceeded with this scope in order to maintain schedule
- Costs associated with Overtime/Acceleration are included for Electrical and are allocated to Electrical Overtime Hold (16-006).

Description	Cost Code	Labor	Material	Equipment	Subcontract	Other	Price
WJGEI - Proposal #63 dated 10/29/21	16-002				\$1,680.23		\$1,680.23
WJGEI - Proposal #63 dated 10/29/21 - Hold Electrical Overtime	16-006				\$783.61		\$783.61
						Subtotal:	\$2,463.84
				Bond (.75%)	\$2,463.84		\$18.48
				General Liability (1.2%)	\$2,463.84		\$29.57
				Subguard (1.4%)	\$2,463.84		\$34.49
				OH&P (5% subs, 10% self perform)	\$2,546.38		\$127.32
						Total:	\$2,673.70

☐ SCHEDULE IMPACT

☒ We have proceeded with this change to achieve schedule.

☐ As directed, we will not proceed with this change until formal direction from OWNER is received.

ARCHITECT

Consigli Construction Co., Inc.

CONTRACTOR

72 Sumner Street

Milford, MA 01757

OWNER

(Signature)

Arthur Duffy

By

03/14/2022

Date

(Signature)

John LaMarre

By

03/09/2022

Date

(Signature)

Jim Burrows

By

3/15/22

Date

Consigli Construction Co., Inc.

Construction Managers and General Contractors

72 Sumner Street, Milford MA 01757 • phone: 508-473-2580 • fax: 508-473-3588 • web: www.consigli.com

Hartford CT • Washington DC • Portland ME • Boston MA • Milford MA • Albany NY • New York NY • Pleasant Valley NY • Ronkonkoma NY



Jockey Pump and Controller Electrical Circuitry (Building E) (WJGEI FIELD RFI #30)

TO:	Stephanie MacNeil (HMFH Architects) Arthur Duffy (HMFH Architects)	FROM:	Kevin Samya (Consigli Construction Co., Inc.) 72 Sumner Street Milford, Massachusetts 01757
DATE INITIATED:	10/25/2021	STATUS:	Open
LOCATION:	Arlington High School>Building E (Phase 1)	DUE DATE:	10/30/2021
COST CODE:		REFERENCE:	WJGEI FIELD RFI #30
COST IMPACT:	TBD	SCHEDULE IMPACT:	TBD
DRAWING NUMBER:		SPEC SECTION:	260000 - Electrical
RECEIVED FROM:	George Gray (Wayne J. Griffin Electric Inc.)		

COPIES TO:

CA Bala (Bala Consulting Engineers), Gil Castera (Bala), Victoria Clifford (Skanska USA Inc.), Greg Cmar (Interval Data Systems), Patrick Condon (Consigli Construction Co., Inc.), Ken Davis (Bala Consulting Engineers), Tom DeRosa (Consigli Construction Co., Inc.), David Dockendorf (Consigli Construction Co., Inc.), Arthur Duffy (HMFH Architects), Jim Fikiet (Skanska USA Inc.), Ryan Flynn (Bala Consulting Engineers), Fran Patnode (Rist-Frost-Shumway Engineering (RFS)), Vianely Franco (HMFH Architects), Kevin Fuller (Interval Data Systems), Mike Gagne (Interval Data Systems), Bill Gnerre (Interval Data Systems), George Hines (Bala Consulting Engineers), John LaMarre (Consigli Construction Co., Inc.), William Lentz (Bala Consulting Engineers), Stephanie MacNeil (HMFH Architects), Scott Martino (Consigli Construction Co., Inc.), Chuck McWilliams (Consigli Construction Co., Inc.), Reid Mullett (Rist-Frost-Shumway Engineering (RFS)), Brandon Mynter (Consigli Construction Co., Inc.), Sy Nguyen (Skanska USA Inc.), Hal Raymond (Skanska USA Inc.), Richard Rivera (Bala Consulting Engineers), Kevin Samya (Consigli Construction Co., Inc.), Mason Saunders (Consigli Construction Co., Inc.), Vikram Singh (Consigli Construction Co., Inc.), Chris Weber (Consigli Construction Co., Inc.)

Question from Kevin Samya (Consigli Construction Co., Inc.) at 03:48 PM on 10/25/2021

Please reference the attached WJGEI FIELD RFI #30.

At this time the electrical drawings do not identify the required electrical branch circuitry and panel designation for the Jockey Pump and Controller in Fire Pump Room S2-18. Electrician proposed utilizing EHRL2E located in Emergency Generator Room S2-16 as the possible location to terminate the required electrical.
Please provide electrical sketches for the intended design.

Attachments:

[RFI #548 - Jockey Pump and Controller Electrical Circuitry \(Building E\) \(WJGEI FIELD RFI #30\).pdf](#)

Awaiting an Official Response

All Replies:

Bala takes no exception to using panel EHRL2E to feed jockey pump and controller. Provide new 20A/3-pole circuit breaker in panel EHRL2E, provide 4#12, 1#12G, & 3/4"C from panel EHRL2E to controller. Provide all required wiring between controller and pump.

KRD

BY

10/26/2021

10/26/2021

DATE

COPIES TO



WAYNE J.
GRIFFIN ELECTRIC
INC.

REQUEST FOR INFORMATION

This is a request for information / clarification to resolve any questions in plans and specifications. Any changes to the contract as a result of the answer to the question below will be addressed under separate cover.

Request For Information No. F30 Date: 10/25/2021

To: Consigli Construction Company, Inc. Job #: 2698
72 Sumner Street
Milford, MA 01757

Attn.: Kevin Samya, Ast. MEP Manager
Title

Project: Arlington High School, Arlington, MA

Reference: Shop Drawings

Question: Please provide electrical branch circuitry and panel designation for Jockey
Pump and Controller

Signed: George Gray Date: 10/25/2021

Please provide an answer by 10/29/2021 to minimize the impact to our work.

Attachments: Yes: X No: _____ Copy: _____

Answer: _____

Signed: _____ Date: _____



TORNATECH[✓]

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

Technical Data Submittal Document

Model JP3[✓]

Across the Line Start
Jockey Pump Controller



Contents:

Data Sheets

Dimensional Data

Wiring Schematics

Field Connections

Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.



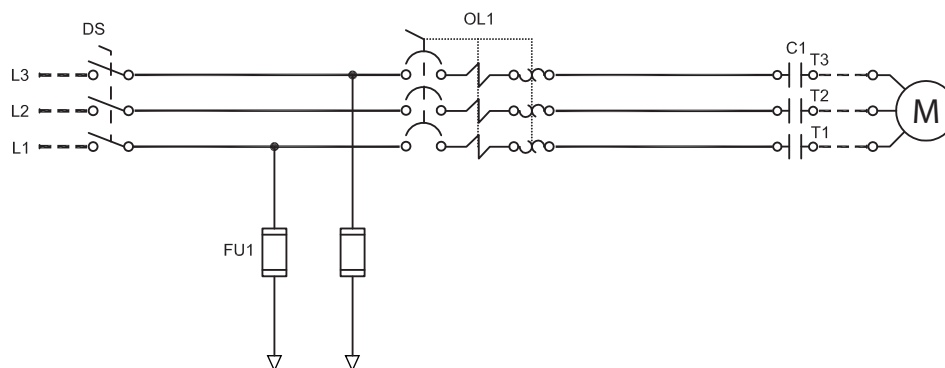
N.Y.C.
APPROVED



February 2019

Technical Data

Model JP3 Jockey Pump Controller



N.Y.C.
APPROVED



OPTIONAL



Listing	Underwriters Laboratory (UL)	UL508A - Industrial Pump Controllers
	CSA	CSA C22.2 No. 14 Industrial Control Equipment
	New York City	Accepted for use in the City of New York by the Department of Buildings
	Seismic Certification	See page 4 for details
	Optional	
	<input type="checkbox"/> CE Mark	Various EN, IEC & CEE directives and standards
Enclosure	Protection Rating	
	<input type="checkbox"/> Standard: NEMA 2 (IP31) ✓	
	Optional	
	<input type="checkbox"/> NEMA 12	<input type="checkbox"/> NEMA 4X-304 sst painted
	<input type="checkbox"/> NEMA 3	<input type="checkbox"/> NEMA 4X-304 sst brushed finish
	<input type="checkbox"/> NEMA 3R	<input type="checkbox"/> NEMA 4X-316 sst painted
	<input type="checkbox"/> NEMA 4	<input type="checkbox"/> NEMA 4X-316 sst brushed finish
	Accessories • Wall mounting lugs (x4)	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish

Shortcircuit Withstand Rating	200V to 208V 50hz - 60Hz	220V to 240V 60Hz	380V to 416V 50Hz - 60Hz	440V to 480V 60Hz	600V 60hz
	HP				
<input type="checkbox"/> Standard 5kA	ALL JPx				
<input type="checkbox"/> Optional 42kA	7.5HP Max.	7.5HP Max.	7.5HP Max.	7.5HP Max.	7.5HP Max.
<input type="checkbox"/> Optional 65kA	3HP- 15HP Max.	5HP - 15HP Max.	7.5HP - 40HP Max.	7.5HP - 40HP Max.	N/A
<input type="checkbox"/> Optional 100kA	2HP Max.	3HP Max.	5HP Max.	5HP Max.	N/A

Spec F. Jockey Controller Paragraph "1" confirms the short circuit is to be 100kA. A/E to confirm if 5kA is acceptable or if it should be 100kA. (KS - CCC)

Technical Data

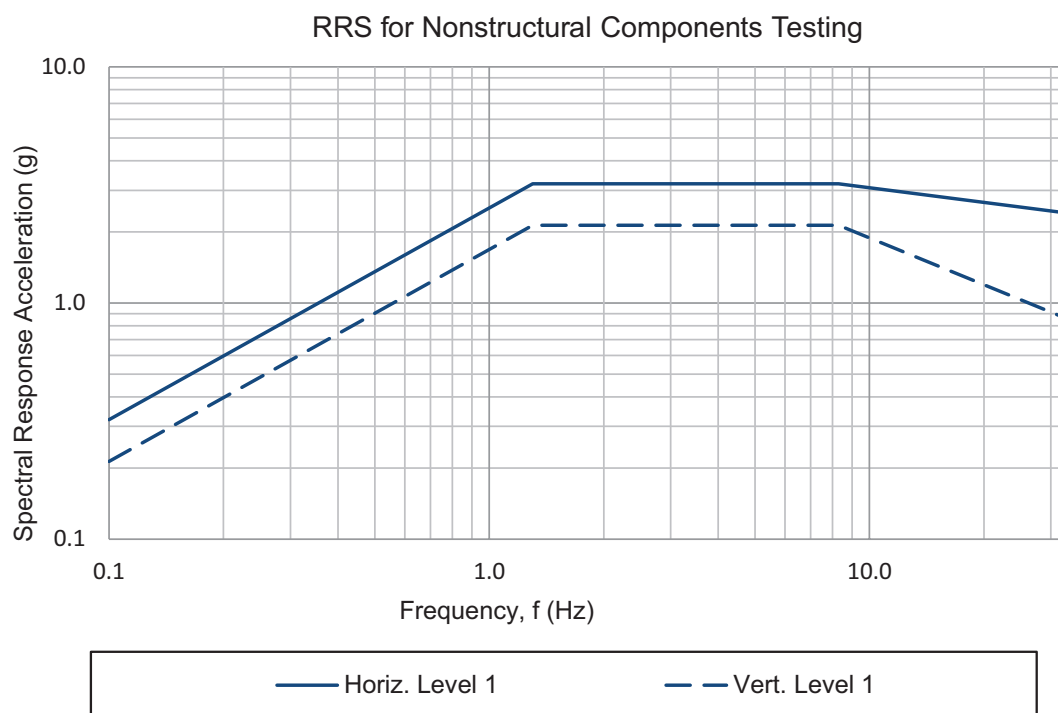
Model JP3 Jockey Pump Controller

Fuseless Motor Starter ✓	<ul style="list-style-type: none"> • Main disconnect – padlockable – rotary type handle – door interlocked • Thermo-magnetic motor protector • Contactor 		
Control Circuit ✓	<ul style="list-style-type: none"> • 24V.AC 		
iPD+ Operator Interface ✓	<ul style="list-style-type: none"> • Solid state controls • All adjustments on door front • Navigation pushbuttons 		
Pressure Sensing ✓	<ul style="list-style-type: none"> • Pressure transducer for fresh water application 316 stainless steel construction • Rated for 0-600psi working pressure • Pressure sensing line connection 1/4" Male NPT 		
Visual Indications ✓	<ul style="list-style-type: none"> • Manual motor start/run LED • Automatic motor start/run LED • Motor overload • Pressure reading <ul style="list-style-type: none"> • Start pressure • Stop pressure • System pressure • System pressure diagnostic LED's <ul style="list-style-type: none"> • Green: system pressure at or above stop pressure • Yellow: system pressure between start and stop pressure • Red: system pressure at or below start pressure • AUTO mode • OFF mode 		
Timers ✓	<ul style="list-style-type: none"> • Minimum run timer (off delay) • Delay start timer (on delay) • Visual countdown 		
Counters ✓	<ul style="list-style-type: none"> • Pump start counter • Elapsed timer meter (hours / non-resettable) 		
Operators ✓	<ul style="list-style-type: none"> • OFF-AUTO pushbutton • Start and Stop pushbutton 		
Operation ✓	Automatic Start	Start on pressure drop	
	Manual Start	Start pushbutton	
	Stopping	Stop pushbutton	
	Timers	Field adjustable & visual countdown	<ul style="list-style-type: none"> • Minimum run timer (off delay) • Delay start timer (on delay)

Technical Data

Model JP3 Jockey Pump Controller

Seismic Certification	Seismic Certification Company	TRU Compliance, LLC A Tobalski Watkins Affiliate					TWEI Project No.: 15014				
	Mounting details	Rigid wall mounting									
	Seismic Information	Building Code	Test Criteria	Seismic Parameters	S _{Ds}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
		IBC 2015, CBC 2016	ICC-ES AC156	ASCE 7-10 Chapter 13	2.0	1.0	1.5	3.20	2.40	1.33	0.53
					3.2	0.0	1.5	3.20	1.28	2.13	0.85



Notes:

- Components are tested in accordance with ICC-ES AC156, IBC 2015 & CBC 2016.
- OSHPD Special Seismic Certification Preapproval (OSP)

Technical Data

Model JP3 Jockey Pump Controller

<input type="checkbox"/> A4	Elapsed time meter (time totalizer)
<input type="checkbox"/> A5	Motor run alarm contact
<input type="checkbox"/> A6	Loss of power alarm contact
<input type="checkbox"/> A7	Overload or short circuit alarm contact
<input type="checkbox"/> D12	CE Mark c/w externally mounted wetted parts
<input type="checkbox"/> D13A	Externally mounted wetted parts
<input type="checkbox"/> D14	Export packing for 1 controller
<input type="checkbox"/> D18	Audible alarm
<input type="checkbox"/> D19	Anti-condensation heater and thermostat
<input type="checkbox"/> D20	Anti-condensation heater and humidistat
<input type="checkbox"/> D21	Tropicalization
<input type="checkbox"/> D22	Phase reversal / failure pilot light and alarm contact
<input type="checkbox"/> D23	Controller power healthy pilot light and alarm contact
<input type="checkbox"/> D24	Pump failure via current sensing relay with pilot light and dry alarm contact
<input type="checkbox"/> D25	Low zone pump control function
<input type="checkbox"/> D26	Mid zone pump control function
<input type="checkbox"/> D27	High zone pump control function
<input type="checkbox"/> D28	Selector switch in auto alarm contacts
<input type="checkbox"/> D29	Selector switch in off alarm contacts
<input type="checkbox"/> D30	Motor heater circuit
<input type="checkbox"/> D32	Service entrance rated - 100kA short circuit withstand rating: • 120V/1ph (0.5hp max.) • 240V/1ph (1hp max.) • 200V-208V - 60hz (2hp max.) • 220V-240V - 60hz (3hp max.) • 380V-416V - 50hz - 60hz (5hp max.) • 440V-480V - 60hz (5hp max.) ✓
<input type="checkbox"/> D33	Service entrance rated - 65kA short circuit withstand rating: • 120V/1ph (0.5hp max.) • 240V/1ph (1hp max.) • 200V-208V - 60hz (3hp-15hp max.) • 220V-240V - 60hz (515hp max.) • 380V-416V - 50hz - 60hz (7.5hp - 40hp max.) • 440V-480V - 60hz (7.5hp-40hp max.)
<input type="checkbox"/> D34	Service entrance rated - 42kA short circuit withstand rating: • 600V - 60hz (7.5hp max.)

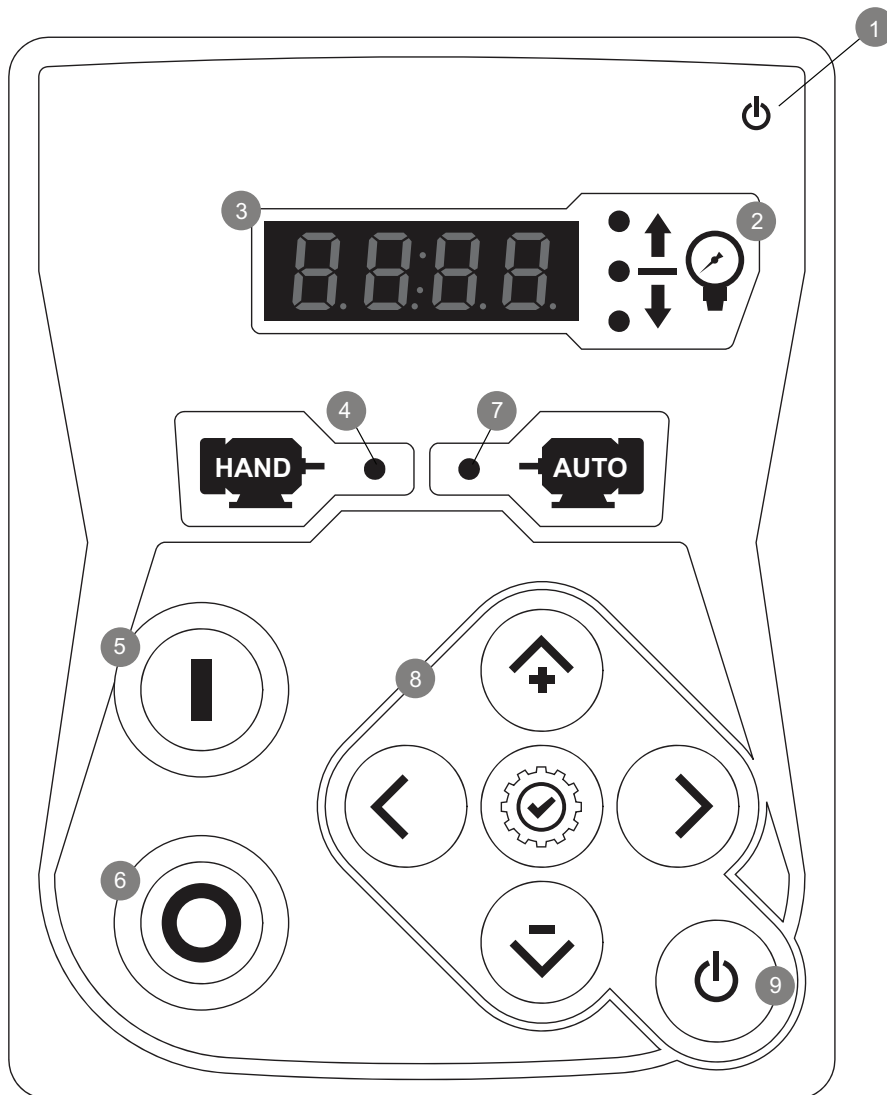
<input type="checkbox"/> L01	Other language and English (bilingual)
<input type="checkbox"/> L02	French
<input type="checkbox"/> L03	Spanish
<input type="checkbox"/> L04	German
<input type="checkbox"/> L05	Italian
<input type="checkbox"/> L06	Polish
<input type="checkbox"/> L07	Romanian
<input type="checkbox"/> L08	Hungarian
<input type="checkbox"/> L09	Slovak
<input type="checkbox"/> L10	Croatian
<input type="checkbox"/> L11	Czech
<input type="checkbox"/> L12	Portuguese
<input type="checkbox"/> L13	Dutch
<input type="checkbox"/> L14	Russian
<input type="checkbox"/> L15	Turkish
<input type="checkbox"/> L16	Swedish
<input type="checkbox"/> L17	Bulgarian
<input type="checkbox"/> L18	Thai
<input type="checkbox"/> L19	Indonesian
<input type="checkbox"/> L20	Slovenian
<input type="checkbox"/> L21	Danish
<input type="checkbox"/> L22	Greek
<input type="checkbox"/> L23	Arabic
<input type="checkbox"/> L24	Hebrew
<input type="checkbox"/> L25	Chinese

Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

Technical Data

Model JP3 Jockey Pump Controller✓

iPD+ Operator Interface



- 1 - Power on LED
- 2 - System status LED
- 3 - Digital display
- 4 - Hand start LED
- 5 - START pushbutton






- 6 - STOP pushbutton
- 7 - Auto start LED
- 8 - Navigation keypad
- 9 - ON - OFF pushbutton

Pump Controller

3 Phase

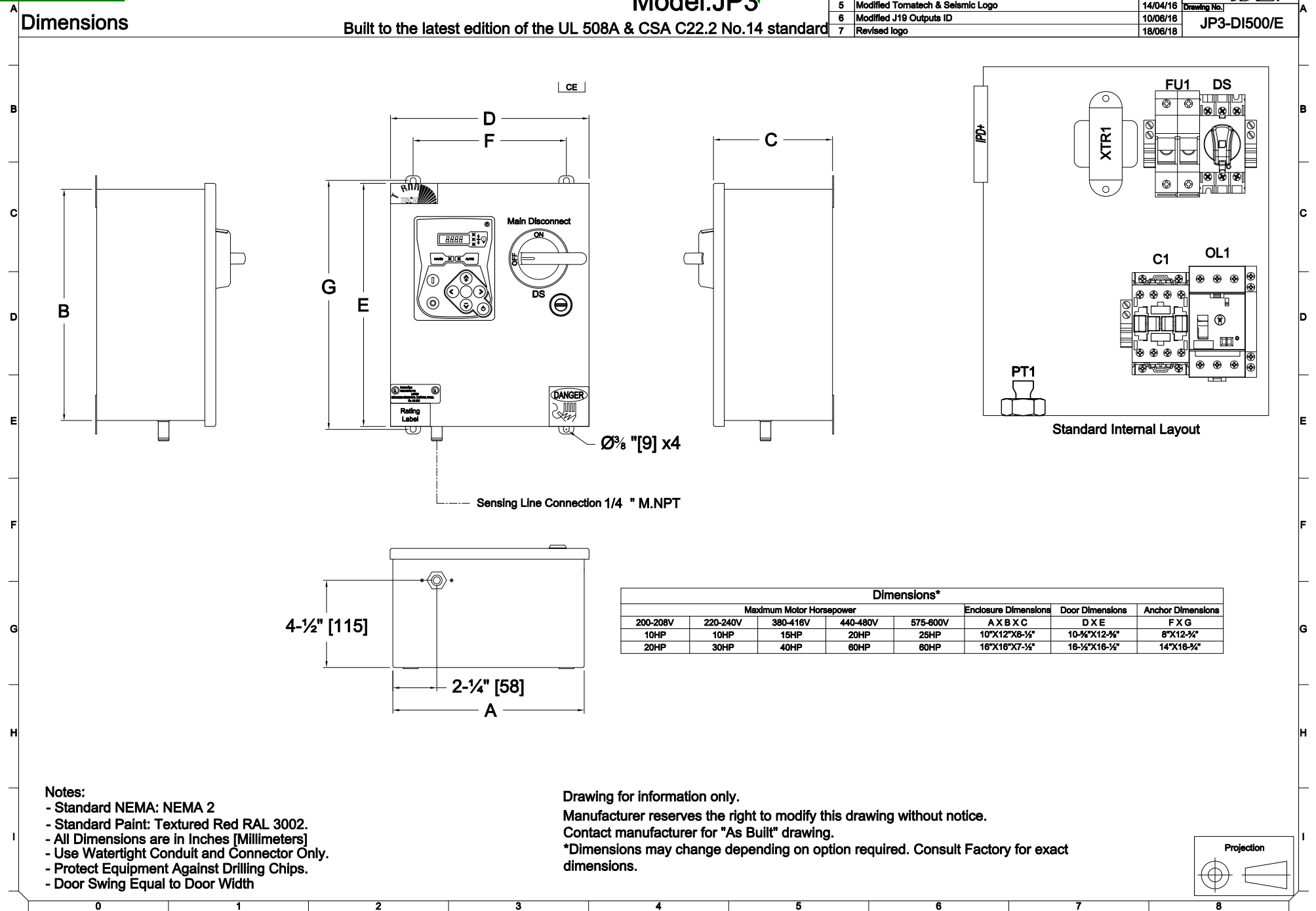
Model:JP3

QCC - CR277

PER QUOTE DRAWING No.							
REV.	DESCRIPTION	DD/MM/YY					Drawing No.
5	Modified Tomatech & Seismic Logo	14/04/16					JP3-DI500/E
6	Modified J19 Outputs ID	10/06/16					
7	Revised logo	18/06/18					

Dimensions

Built to the latest edition of the UL 508A & CSA C22.2 No.14 standard



Ø $\frac{3}{8}$ " [9] x4

Sensing Line Connection 1/4" M.NPT

Standard Internal Layout

4-1/2" [115]

2-1/4" [58]

Dimensions*

Maximum Motor Horsepower					Enclosure Dimensions	Door Dimensions	Anchor Dimensions
200-208V	220-240V	380-416V	440-480V	575-600V	A X B X C	D X E	F X G
10HP	10HP	15HP	20HP	25HP	10"X12"X6-1/2"	10-5/8"X12-5/8"	8"X12-5/8"
20HP	30HP	40HP	60HP	80HP	16"X16"X7-1/2"	16-1/2"X16-1/2"	14"X16-5/8"

Notes:

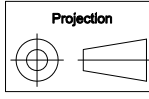
- Standard NEMA: NEMA 2
- Standard Paint: Textured Red RAL 3002.
- All Dimensions are in Inches [Millimeters]
- Use Watertight Conduit and Connector Only.
- Protect Equipment Against Drilling Chips.
- Door Swing Equal to Door Width

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.

*Dimensions may change depending on option required. Consult Factory for exact dimensions.



Pump Controller

3 Phase

Model:JP3

Line and Motor Terminal Size

Built to the latest edition of the UL 508A & CSA C22.2 No.14 standard

PER QUOTE DRAWING No.



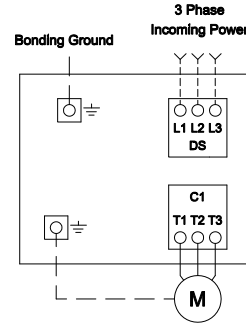
CCC - CR277



REV.	DESCRIPTION	DD/MM/YY
5	Modified Tomatech & Seismic Logo	14/04/16
6	Modified J19 Outputs ID	10/06/16
7	Revised logo	18/06/18

Drawing No. JP3-TD500/E

Power Connections and Motor Connections



Line Terminals (L1,L2,L3,GND)

Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
10HP	10HP	20HP	20HP	25HP	#14 AWG - #6 AWG	2 Nm	#14 AWG - #2 AWG
20HP	30HP	40HP	60HP	60HP	#12 AWG - #1 AWG	6 Nm	#6 AWG - #2 AWG

Motor Terminals (T1,T2,T3,GND)

Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
5HP	7.5HP	10HP	15HP	20HP	#14 AWG - #10 AWG	1.8 Nm	#14 AWG - #2 AWG
10HP	10HP	15HP	20HP	25HP	#14 AWG - #6 AWG	2.5 Nm	#12 AWG - #2 AWG
15HP	20HP	30HP	50HP	50HP	#10 AWG - #3 AWG	5 Nm	#12 AWG - #2 AWG
20HP	30HP	40HP	60HP	60HP	#10 AWG - #2 AWG	11.3 Nm	#12 AWG - #2 AWG



WAYNE J.
GRIFFIN ELECTRIC
INC.

October 28, 2021

VIA EMAIL ONLY: cweber@consigli.com

Mr. Chris Weber, Project Manager
Consigli Construction Company, Inc.
72 Sumner Street
Milford, MA 01757

RE: Job #2698 - Arlington High School, Arlington, MA
Proposal #63

Dear Mr. Weber:

Wayne J. Griffin Electric, Inc. ("WJGE") proposes to modify our contract to perform the following lump sum revisions to our work per our enclosed detailed backup:

DESCRIPTION OF WORK:

As reflected under RFI-548, furnish and install additional branch circuitry and connections to the jockey pump and controller. Relocate unused 20A/3P breaker from panel MHOS3E and install in Panel EHLR2E for new service connection to jockey pump.

Total \$ 2,463.84 ✓

This is a lump sum forward looking estimate of the above-noted change to our scope of work. This estimate represents a price we are willing to accept to assume the cost risk of this change to our ongoing work given the information provided to us. The labor and material prices contained in this proposal are based upon vendor/subcontractor quotes (if noted) and/or electrical industry pricing guides such as NECA, Trade Service, or R.S. Means, which guides are widely used and accepted in the construction industry to facilitate timely and consistent change order pricing. This estimate is offered for your review, approval and acceptance.

The value included in this proposal does not include any amounts for extended contract duration, changes in the sequence of work, acceleration, disruptions, interference and/or impacts, and the right is expressly reserved to recover any and all of these related items prior to any final settlement of this contract. The working relationship between your company and ours shall be in accordance with our mutually agreed to contract form.

Corporate Headquarters:

116 Hopping Brook Road
Holliston, MA 01746
Phone: (508) 429-8830
Fax: (508) 429-7825

Regional Offices:

296 Cahaba Valley Parkway
Pelham, AL 35124
Phone: (205) 733-8848
Fax: (205) 733-8107

1950 Evergreen Boulevard
Suite 300
Duluth, GA 30096
Phone: (678) 417-9377
Fax: (678) 417-9373

2310 Presidential Drive
Suite 101
Durham, NC 27703
Phone: (919) 627-9724
Fax: (919) 627-9727

9801-C Southern Pine Boulevard
Charlotte, NC 28273
Phone: (704) 522-3851
Fax: (704) 522-3856

Wayne J. Griffin Electric, Inc. reserves the right to void this proposal after thirty (30) days from the date above.

If you have any questions regarding the above, please do not hesitate to contact me at (508) 306-5313 or wpease@wjgei.com.

Very truly yours,

WAYNE J. GRIFFIN ELECTRIC, INC.



Wayne A. Pease
Senior Project Manager

WP/hat

ACKNOWLEDGMENT: The contract modifications stated for the above proposal are acceptable for the work to be performed. The value of the work completed to the date of the next requisition may be billed on that requisition.

Date: _____ Authorized Signature: _____

cc: John LaMarre, Senior Project Manager, Consigli Construction Company, Inc.,
JLaMarre@consigli.com
George Gray, Project Engineer, Wayne J. Griffin Electric, Inc.
Jeremiah Kimball, Project Foreman, Wayne J. Griffin Electric, Inc.



CCN#: P-0063, RFI-548 Jockey Pump
 Date: 10/27/2021
 Project Name: Arlington High School
 Project Number: 02698-00-20
 Page Number: 1

116 Hopping Brook Road, Holliston, MA 01746
 (508) 429-8830 FAX (508) 429-9251

Work Description

As reflected under RFI-548, furnish and install additional branch circuitry and connections to the jockey pump and controller. Relocate unused 20A/3P breaker from panel MHOS3E and install in Panel EHLR2E for new service connection to jockey pump.

Itemized Breakdown

Description	Qty	Net Price	UM	Materials (\$)	Labor	Total Hours
Field Layout/Coordination	0.00	0.0000	HRS	0.000	0.000	0.550
Phase Totals				0.00		0.55
3/4" EMT Pipe	70.00	1.2630	E	88.410	0.062	4.340
3/4" EMT S/S Connectors	3.00	0.6000	E	1.800	0.073	0.220
3/4" EMT S/S Couplings	7.00	2.4000	E	16.800	0.043	0.300
3/4" EMT Supports	9.00	0.3600	E	3.240	0.042	0.380
3/4" Liquid Tight	4.00	1.5400	E	6.160	0.080	0.320
3/4" EMT to LQ Connector	1.00	4.5300	E	4.530	0.160	0.160
3/4" 90 LQ Connector	1.00	5.5100	E	5.510	0.444	0.440
#12 THHN Cu Wire	320.00	0.2011	E	64.350	0.007	2.240
Wire Connectors	3.00	0.0700	E	0.210	0.030	0.090
Block Wall Penetrations	2.00	0.0000	E	0.000	0.330	0.660
Fire Stopping	2.00	10.5000	E	21.000	0.250	0.500
Relocate 20A/3P CB from Panel MHOS3E	1.00	0.0000	E	0.000	1.290	1.290
Phase Totals				212.01		10.94
Totals				212.01		11.49
Tax				0.00		
Materials with Tax				212.01		

Summary

Itemized Breakdown Total			212.01
Electrical Journeyman Overtime	(11.4900 hrs @ \$134.85 / hr)	1,549.43	
PTO Rate \$44.95			1,549.43 ✓
Labor Burden	(\$1,549.43 @ 30.00%)	464.83	
		464.83 ✓	
Overhead & Profit	(\$2,226.27 @ 10.00%)	222.63	
		222.63 ✓	
Bond	(\$2,448.90 @ 0.61%)	14.94	
		14.94 ✓	
Total			702.40 ✓
			\$2,463.84 ✓

OT portion to be allocated to 16-006: \$783.61

**GENERAL CONTRACTOR PROGRESS PAYMENT
CERTIFICATION AND WAIVER (Conditional)**

PROJECT: Arlington High School
CONTRACTOR: Consigli Construction Co., Inc.

OWNER: Town of Arlington, 730 Massachusetts Ave, Arlington, MA 02476

Conditioned upon receipt of payment to be made on its progress Application for Payment No. 23 in the amount of \$ 1,709,783.89 for services, labor, material and equipment provided to the above-referenced Project by Contractor through 02/28/22 (the "Payment Period"), Contractor hereby:

1. **CERTIFIES** to Owner and any lender of Owner that, upon receipt of payment of the amount stated in the prior paragraph, Contractor will be paid in full for all services, labor, materials, equipment, and other items furnished in connection with improvements to real property on the Project for base contract work and approved Change Orders through and including the last day of the Payment Period, except for retainage and not including pending changes or claims, all in accordance with the written contract between the parties for construction of the Project.

2. **WAIVES**, relinquishes and dissolves all rights to any lien (including, without limitation, liens under the mechanic's lien law of any state wherein the Project may lie) upon the property, real estate, buildings, or improvement for to the extent of sums billed and paid to Contractor through the last day of the Payment Period.

3. **AGREES TO INDEMNIFY**, defend, and save harmless the Owner and any lender of Owner from all liens, claims and demands, and all expenses incurred, including attorneys' fees and costs of defense, on account of claims brought by anyone claiming by, through or under Contractor, for payment of any services or labor performed or material or equipment furnished in connection with improvements to real property for the Project to the extent of sums billed and paid to Contractor through the last day of the Payment Period.

4. **REPRESENTS AND WARRANTS** to the Owner and any lender of Owner that all laborers, subcontractors, materialmen and others providing services, labor, material, and/or equipment and all taxes and contributions of any other descriptive title in connection with the work furnished for and through Contractor have been paid in full through the last day of the Payment Period.

5. **REPRESENTS AND WARRANTS** that no other person or entity has any prior interest in the claims, demands, allegations or causes of action arising on its behalf on account of the work; that Contractor has the sole right and authority to execute this progress certification and waiver and received the sums specified herein; and that Contractor has not sold, assigned, transferred, conveyed, or otherwise disposed of the claims, demands or rights released hereby.

Executed as a sealed instrument this 15th day of March, 2022.

By [Signature]
(Authorized Officer)

Printed Name: Julie Kuchenbrod

State of: Massachusetts

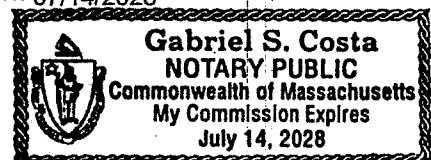
3/15/22

(Date)

Then personally appeared before me the above-named Julie Kuchenbrod, who being duly sworn did say that he/she is the Director of Project Accounting of Consigli Construction Co. that the foregoing instrument was signed on behalf of said corporation by authority of its Board of Directors, and that said instrument was acknowledged to be the free act and deed of said corporation.

[Signature]
Notary Public

My commission expires: 07/14/2028



APPLICATION AND CERTIFICATION FOR PAYMENT

AIA DOCUMENT G702

PAGE ONE OF ____ PAGES

TO OWNER: Town of Arlington
730 Massachusetts Ave
Arlington, MA 02476

PROJECT: Arlington High School

Invoice 23
Draw

Application date: 3/15/2022
Period ending date: 2/28/2022

DISTRIBUTE TO:

- ☐ OWNER
☐ ARCHITECT
☐ CONTRACTOR
☐
☐

FROM CONTRACTOR: Consigli Construction Co., Inc.
72 Sumner Street
Milton, MA 01757

VIA ARCHITECT: HMFH Architects, Inc.
130 Bishop Allen Drive
Cambridge, MA 02139

PROJECT NO: 2153

CONTRACT DATE: 6/26/2019

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown above, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM	\$234,287,347.00
2. NET CHANGE BY CHANGE ORDERS	\$741,478.01
3. CONTRACT SUM TO DATE (Line 1 ± 2)	\$235,028,825.01
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)	\$93,767,234.49
5. RETAINAGE:	
a. 4.45 % of Completed Work	\$ 4,158,107.59
(Column D + E on G703)	\$ 12,465.63
b. 4.45 % of Stored Material	
(Column F on G703)	
Total Retainage (Lines 5a+5b or Total in Column I on G703)	\$4,170,573.22
6. TOTAL EARNED LESS RETAINAGE (Line 4 Less Line 5 Total)	\$89,596,661.27
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 From Prior CERTIFICATE)	\$87,886,877.38
8. CURRENT PAYMENT DUE (Line 6 Less Line 7)	\$1,709,783.89
9. BALANCE TO FINISH INCLUDING RETAINAGE (Line 3 Less Line 6)	\$145,432,163.74

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	741,478.01	
Total approved this Month		
TOTALS	741,478.01	
NET CHANGES by Change Order	741,478.01	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

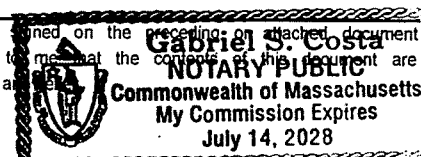
CONTRACTOR: Consigli Construction Co., Inc.

By: [Signature] Date: 3/15/22State of: MA County of: WorcesterOn this the 15th day of March 2022 before me,

proved to me through satisfactory evidence of identity, which was/were

personal knowledge
to be the person(s) whose name(s) was/were signed on the preceding attached document
in my presence, and who swore or affirmed to me that the contents of this document are
truthful and accurate to the best of his/her knowledge and belief.

Notary Public: [Signature]
My Commission expires: 7/14/2028



ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED:\$ 1,709,783.89

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)

ARCHITECT:

By: [Signature] Date: 03/15/2022

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

In tabulations below, amounts are stated to the nearest dollar.
Use Column I on contracts where variable retainage for items may apply.

Project:
2153-01 / Arlington High School

Invoice 23
Draw
Application date: 3/15/2022
Period ending date: 2/28/2022

A	B				C	D	E	F	G	H	I		
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)	
						FROM PREV. APPLICATION (D + E)	THIS PERIOD						
1-000	Arlington High School												
		Subtotal	.00	.00				.00					
		Total	.00	.00				.00					
	0502-0010												
25-001	Contractor's Fee (62 Mo.)	4,733,848.00			4,733,848.00	1,679,744.00	76,352.00		1,756,096.00	37.10	2,977,752.00	87,804.80	
		Subtotal	4,733,848.00	.00	.00	4,733,848.00	1,679,744.00	76,352.00	.00	1,756,096.00	37.10	2,977,752.00	87,804.80
		0502-0010 Total	4,733,848.00	.00	.00	4,733,848.00	1,679,744.00	76,352.00	.00	1,756,096.00	37.10	2,977,752.00	87,804.80
	0502-0020												
1-910 1-920 1-930 1-940	Payment & Performance Bond Builder's Risk Insurance General Liability Insurance Sub Default Insurance	2,262,450.00			2,262,450.00	2,262,450.00			2,262,450.00	100.00		113,122.50	
		2,604,288.00			2,604,288.00	2,604,288.00			2,604,288.00	100.00		130,214.40	
		1,345,817.00			1,345,817.00	1,332,358.83	13,458.17		1,345,817.00	100.00		67,290.85	
		Subtotal	6,212,555.00	.00	.00	6,212,555.00	6,199,096.83	13,458.17	.00	6,212,555.00	100.00		310,627.75
		0502-0020 Total	6,212,555.00	.00	.00	6,212,555.00	6,199,096.83	13,458.17	.00	6,212,555.00	100.00		310,627.75
	0502-0030												
19-001 19-002 19-003 19-004 24-010 24-013	Construction Contingency Buyout Savings Design Contingency Owner Change Contingency ALLOW - Parmenter Changes ALLOW - Accel. & OT	5,817,419.00		-490,820.15	5,326,598.85						5,326,598.85		
				722,360.00	722,360.00						722,360.00		
		1,150,000.00		-1,148,707.74	1,292.26					1,292.26			
		217,534.00			217,534.00					217,534.00			
		700,000.00		-402,283.69	297,716.31					297,716.31			
		Subtotal	7,884,953.00	.00	-1,319,451.58	6,565,501.42			.00			6,565,501.42	
0502-0030 Total	7,884,953.00	.00	-1,319,451.58	6,565,501.42			.00			6,565,501.42			
	0502-0100												
1-001 1-002	01-GC's Phase 1 & 2 GC's (41 Mo.) Phase 3 & 4 GC's (21 Mo.)	8,829,106.00			8,829,106.00	4,737,568.00	215,344.00		4,952,912.00	56.10	3,876,194.00	247,645.60	
		3,102,119.00			3,102,119.00						3,102,119.00		
		01-GC's Subtotal	11,931,225.00	.00	.00	11,931,225.00	4,737,568.00	215,344.00	.00	4,952,912.00	41.51	6,978,313.00	247,645.60
	02-GR's												
1-012	Survey/Engineering			602,533.50	602,533.50	301,737.00	12,408.00		314,145.00	52.14	288,388.50	15,707.26	
1-099	Riggs General Requirements	1,322,836.00		1,834,894.81	3,157,730.81	2,813,399.00	166,259.00		2,979,658.00	94.36	178,072.81	148,982.90	
1-120	Office Furniture			17,703.00	17,703.00	7,238.00			7,238.00	40.89	10,465.00	361.90	
1-121	Owner Office Furniture/Equip	16,000.00		-10,000.00	6,000.00	117.00			117.00	1.95	5,883.00	5.85	
1-125	Office Supplies	20,000.00		7,995.00	27,995.00	27,995.00			27,995.00	100.00		1,399.75	
1-130	Computers & Communications	118,533.00		-28,000.00	90,533.00	75,722.00	3,656.00		79,378.00	87.68	11,155.00	3,968.90	
1-140	Temp Power			122,158.25	122,158.25	122,158.25			122,158.25	100.00		6,107.91	
1-145	Temp Water			30,000.00	30,000.00	4,515.00	129.00		4,644.00	15.48	25,356.00	232.20	
1-150	Toilets	108,500.00		42,364.92	150,864.92	114,415.00	4,972.00		119,387.00	79.14	31,477.92	5,969.36	
1-153	Drinking Water	18,600.00			18,600.00	7,870.00	484.00		8,354.00	44.91	10,246.00	417.70	
1-185	Blueprints			2,005.00	2,005.00	2,005.00			2,005.00	100.00		100.25	
1-210	Storage Trailers	56,000.00		-15,188.71	40,811.29	2,301.00	50.00		2,351.00	5.76	38,460.29	117.55	

CONTINUATION SHEET

AIA DOCUMENT G703

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Project:
2153-01 / Arlington High School

Invoice 23
Draw
Application date: 3/15/2022
Period ending date: 2/28/2022

A	B				C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	%(G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
1-213	Office Trailers	148,800.00		-22,329.68	126,470.32	51,346.00			51,346.00	40.60	75,124.32	2,567.30
1-214	Owner Temp Office Trailer	37,200.00		-6,477.92	30,722.08	14,831.00	473.00		15,304.00	49.81	15,418.08	765.20
1-216	Setup Trailer	25,000.00		-12,196.00	12,804.00						12,804.00	.
1-217	Owner Temp Office Setup/Remv	5,000.00		-2,000.00	3,000.00						3,000.00	.
1-218	Owner Telephone Service	59,266.00			59,266.00						59,266.00	.
1-230	Barricades	20,000.00			20,000.00						20,000.00	.
1-248	Temp Pest Control	13,500.00			13,500.00	9,698.00	300.00		9,998.00	74.06	3,502.00	499.90
1-250	Construction Sign Materials			2,162.46	2,162.46	2,162.46			2,162.46	100.00		108.12
1-275	Site Security	25,000.00		-7,310.00	17,690.00						17,690.00	.
1-301	BLDG Enclosure - Bldg D&E			758,483.46	758,483.46	755,972.00			755,972.00	99.67	2,511.46	37,798.60
1-310	Temp Heat Setup			40,888.00	40,888.00	40,888.00			40,888.00	100.00		2,044.40
1-320	Temp Heat Fuel			127,080.96	127,080.96	127,080.96			127,080.96	100.00		6,354.05
1-350	Winter Conditions											.
1-410	Covered Walway/OH Protection			129,500.08	129,500.08	112,000.00			112,000.00	86.49	17,500.08	5,600.00
1-810	Dumpsters			390,438.00	390,438.00	132,734.00	7,115.00		139,849.00	35.82	250,589.00	6,992.45
1-820	Cleanup/Dumpster Allowance	1,911,152.00		-1,888,885.32	22,266.68	19,614.00			19,614.00	88.09	2,652.68	980.70
1-840	Indoor Air Quality	5,000.00		60,000.00	65,000.00	31,799.00	3,300.00		35,099.00	54.00	29,901.00	1,754.95
1-860	Final Cleaning (Jerez)			11,500.00	11,500.00	11,500.00			11,500.00	100.00		575.00
1-985	Textura Project Fee			30,000.00	30,000.00	28,688.00			28,688.00	95.63	1,312.00	1,434.40
24-001	ALLOW-Temp Electric Consumed	200,000.00		-122,158.25	77,841.75						77,841.75	.
24-002	ALLOW-Temp Heating System	125,000.00		-63,682.68	61,317.32						61,317.32	.
24-003	ALLOW-Temp Heat Fuel Consumpt	125,000.00		-110,040.96	14,959.04						14,959.04	.
24-004	ALLOW-Permits,Insp,Testing	250,000.00			250,000.00						250,000.00	.
24-006	ALLOW-Project Identification	15,000.00		-721.00	14,279.00						14,279.00	.
24-007	ALLOW-Police Details	22,500.00			22,500.00						22,500.00	.
24-008	ALLOW-Humidity Control	200,000.00			200,000.00						200,000.00	.
24-009	ALLOW - Winter Conditions	150,000.00		-58,619.89	91,380.11						91,380.11	.
24-014	ALLOW - COVID-19	600,000.00		-308,477.58	291,522.42						291,522.42	.
24-022	ALLOW-EBP Chngs GR's	48,221.00		-48,221.00								.
	02-GR's Subtotal	5,646,108.00	.00	1,505,398.45	7,151,506.45	4,817,785.67	199,146.00	.00	5,016,931.67	70.15	2,134,574.78	250,846.60
	0502-0100 Total	17,577,333.00	.00	1,505,398.45	19,082,731.45	9,555,353.67	414,490.00	.00	9,969,843.67	52.25	9,112,887.78	498,492.20
	0502-0200											
2-001	Selective Demo (Costello)	6,111,075.00		-366,957.93	5,744,117.07	490,678.51			490,678.51	8.54	5,253,438.56	24,533.93
2-002	HOLD-Trade Support			110,000.00	110,000.00						110,000.00	.
2-003	Demo Sub EBP3 - Costello	52,500.00		-52,500.00								.
2-004	HOLD-Street Swp & Lab Clean			32,251.99	32,251.99						32,251.99	.
2-005	HOLD-Temp Construction/Cond			100,000.00	100,000.00						100,000.00	.
2-007	HOLD-Layout for Demo											.
2-008	HOLD-Shoring/Brac per SE			48,710.04	48,710.04						48,710.04	.
2-009	HOLD-Add Air Monit. W/School											.
2-011	HOLD-Unforeseen Conditions			60,000.00	60,000.00						60,000.00	.
2-012	Vinyl Asbestos Tile (VAT)	780,000.00			780,000.00						780,000.00	.
2-013	Underground Storage Tank (UST)	65,000.00			65,000.00						65,000.00	.
24-023	ALLOW-EBP Chngs Demo	40,815.00		-40,783.98	31.02						31.02	.

CONTINUATION SHEET

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2153-01 / Arlington High School

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Draw
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						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
	Subtotal	7,049,390.00	.00	-109,279.88	6,940,110.12	490,678.51		.00	490,678.51	7.07	6,449,431.61	24,533.93
	0502-0200 Total	7,049,390.00	.00	-109,279.88	6,940,110.12	490,678.51		.00	490,678.51	7.07	6,449,431.61	24,533.93
	0502-0300											
24-025	ALLOW-EBP Chngs Concrete	68,000.00		-61,739.75	6,260.25	-4,993.75			-4,993.75	79.77	11,254.00	-249.69
24-038	ALLOW-DD Post GMP Ph.2-4 Con			100,000.00	100,000.00						100,000.00	
3-100	Concrete EBP#4 - Riggs	3,830,000.00		32,927.49	3,862,927.49	3,849,597.49			3,849,597.49	99.65	13,330.00	96,416.67
3-101	Concrete Sub - Ph. 2-4	11,281,900.00		-225,781.93	11,056,118.07						11,056,118.07	
3-102	Polished Concrete Sub	326,854.00		-147,934.00	178,920.00	95,708.00			95,708.00	53.49	83,212.00	4,785.40
3-103	HOLD-Polished Conc TU/Repair			40,000.00	40,000.00						40,000.00	
3-104	HOLD-Floor Protection 30k SF			52,780.00	52,780.00						52,780.00	
3-110	Concrete EBP#3 - Riggs	17,100.00		-6,710.71	10,389.29	10,389.29			10,389.29	100.00		
3-111	GMP Hold - Trade Support EBP4											
3-112	GMP Hold - Weather Conditions											
3-113	GMP Hold - Add Rebar MEP Coord			7,014.31	7,014.31						7,014.31	
3-114	HOLD-Trade Support			100,000.00	100,000.00						100,000.00	
3-115	HOLD-Insulation Topping Slabs			15,000.00	15,000.00						15,000.00	
3-116	HOLD-Add'l Reb. MEP Coord			10,000.00	10,000.00						10,000.00	
	Subtotal	15,523,854.00	.00	-84,444.59	15,439,409.41	3,950,701.03		.00	3,950,701.03	25.59	11,488,708.38	100,952.38
	0502-0300 Total	15,523,854.00	.00	-84,444.59	15,439,409.41	3,950,701.03		.00	3,950,701.03	25.59	11,488,708.38	100,952.38
	0502-0400											
4-220	Concrete Masonry Units	6,668,000.00		40,803.00	6,708,803.00	2,199,950.00			2,199,950.00	32.79	4,508,853.00	109,997.50
	Subtotal	6,668,000.00	.00	40,803.00	6,708,803.00	2,199,950.00		.00	2,199,950.00	32.79	4,508,853.00	109,997.50
	0502-0400 Total	6,668,000.00	.00	40,803.00	6,708,803.00	2,199,950.00		.00	2,199,950.00	32.79	4,508,853.00	109,997.50
	0502-0500											
24-026	ALLOW-EBP Chngs Steel	413,541.00		-403,947.01	9,593.99						9,593.99	
24-039	ALLOW-Steel & Deck Op Support			147,897.18	147,897.18						147,897.18	
24-042	ALLOW-Additional Misc. Metals			200,000.00	200,000.00						200,000.00	
5-120	Structural Steel	7,260,500.00		-104,138.21	7,156,361.79	7,137,727.45	18,634.34		7,156,361.79	100.00		183,600.41
5-121	GMP Hold - Trade Support	10,318,500.00		90,000.00	10,408,500.00						10,408,500.00	
5-122	GMP Hold - Weather Delay			27,203.25	27,203.25						27,203.25	
5-123	GMP Hold - Add Pen & Framed Op			48,000.00	48,000.00						48,000.00	
5-124	GMP Hold - Add Picks for Trade			50,000.00	50,000.00						50,000.00	
5-125	GMP Hold - Add Stl MEP Fac Coo			114,028.07	114,028.07						114,028.07	
5-126	GMP Hold - Add Supp Stl CurWal			60,000.00	60,000.00						60,000.00	
5-127	GMP Hold - Maint & Rem Cab Rai			35,000.00	35,000.00						35,000.00	
5-128	GMP Hold - Baseline Con & Surv											
5-129	GMP Hold - Crane Pad			50,000.00	50,000.00						50,000.00	
5-130	Structural Steel - Ph. 2 & 3			635,700.64	635,700.64	324,119.08	12,684.00		336,803.08	52.98	298,897.56	16,840.19
5-501	Miscellaneous Metals Sub	1,525,000.00		31,256.00	1,556,256.00	474,502.50	6,689.50		481,192.00	30.92	1,075,064.00	24,059.62
5-502	Allowance For Misc. Metals	200,000.00		-200,000.00								
	Subtotal	19,717,541.00	.00	780,999.92	20,498,540.92	7,936,349.03	38,007.84	.00	7,974,356.87	38.90	12,524,184.05	224,500.22
	0502-0500 Total	19,717,541.00	.00	780,999.92	20,498,540.92	7,936,349.03	38,007.84	.00	7,974,356.87	38.90	12,524,184.05	224,500.22

CONTINUATION SHEET

AIA DOCUMENT G703

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Project: 2153-01 / Arlington High School

Invoice 23
Draw
Application date: 3/15/2022
Period ending date: 2/28/2022

In tabulations below, amounts are stated to the nearest dollar.
Use Column I on contracts where variable retainage for items may apply.

A	B				C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	%(G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
	0502-0600											
24-015	ALLOW-Phasing Wood/Composites	65,000.00		-12,582.74	52,417.26						52,417.26	
24-027	ALLOW-EBP Chngs Carpentry	5,150.00		-5,150.40	-0.40						-0.40	
6-601	Finish Carp. Furnish (Padco)	12,760.00		-5,406.00	7,354.00	7,354.00			7,354.00	100.00		192.50
6-603	Finish Carp. Install (Riggs)	3,553,853.00		188,071.71	3,741,924.71	2,072,553.40	114,450.00		2,187,003.40	58.45	1,554,921.31	108,887.62
6-604	HOLD-Add Frmg Bckup for ME Pnl			35,914.05	35,914.05						35,914.05	
	Subtotal	3,636,763.00	.00	200,846.62	3,837,609.62	2,079,907.40	114,450.00	.00	2,194,357.40	57.18	1,643,252.22	109,080.12
	0502-0600 Total	3,636,763.00	.00	200,846.62	3,837,609.62	2,079,907.40	114,450.00	.00	2,194,357.40	57.18	1,643,252.22	109,080.12
	0502-0700											
24-016	ALLOW-Phasing Moisture Protect	65,000.00		-4,592.71	60,407.29						60,407.29	
7-101	Water/Dampproof/caulking Sub	1,542,000.00			1,542,000.00	582,000.00			582,000.00	37.74	960,000.00	29,100.00
7-260	Sub Slab Vapor Membrane	766,000.00		-96,000.00	670,000.00	278,998.79			278,998.79	41.64	391,001.21	13,949.93
7-261	Engineered Barrier	161,250.00		-42,600.00	118,650.00						118,650.00	
7-262	HOLD-Geomembrane Pen.Patch			60,000.00	60,000.00						60,000.00	
7-263	HOLD-Slab Vent Syst Add'l Mob			36,000.00	36,000.00						36,000.00	
7-264	HOLD - Geomembrane patching			36,800.00	36,800.00						36,800.00	
7-265	HOLD - Add Mobs >1 Base Bid			1,800.00	1,800.00						1,800.00	
7-475	Exterior Wall Panels	1,827,800.00		-386,800.00	1,441,000.00	824,534.15	18,593.00		843,127.15	58.51	597,872.85	42,156.35
7-476	HOLD-MockUp if Larger 3x3			10,000.00	10,000.00						10,000.00	
7-477	HOLD-Cust Panel Col Match CW			15,000.00	15,000.00						15,000.00	
7-478	HOLD-Add Roof Protect Install			60,000.00	60,000.00						60,000.00	
7-479	HOLD-Snow & Ice Removal			25,000.00	25,000.00						25,000.00	
7-480	HOLD-Suppt Ext Col Covr Inst			20,000.00	20,000.00						20,000.00	
7-501	Membrane Roofing Sub	3,483,000.00		15,906.15	3,498,906.15	1,140,484.90			1,140,484.90	32.60	2,358,421.25	57,024.25
7-726	Roof Davit Install -Titan EBP3			27,036.00	27,036.00	27,036.00			27,036.00	100.00		
7-810	Fireproofing	1,300,000.00		-2,935.42	1,297,064.58	521,118.74			521,118.74	40.18	775,945.84	26,055.88
7-811	HOLD-Add'l Moves & Patching			12,000.00	12,000.00						12,000.00	
	Subtotal	9,145,050.00	.00	-213,385.98	8,931,664.02	3,374,172.58	18,593.00	.00	3,392,765.58	37.99	5,538,898.44	168,286.41
	0502-0700 Total	9,145,050.00	.00	-213,385.98	8,931,664.02	3,374,172.58	18,593.00	.00	3,392,765.58	37.99	5,538,898.44	168,286.41
	0502-0800											
8-001	DFH Supplier (Horner)	34,260.00		-11,360.00	22,900.00	22,900.00			22,900.00	100.00		1,145.00
8-002	Doors & Hardware	1,680,770.00		-425,191.86	1,255,578.14	882,568.52	580.80		883,149.32	70.34	372,428.82	44,157.46
8-003	D&H Install (Riggs)			10,860.00	10,860.00	10,860.00			10,860.00	100.00		543.00
8-004	D&H Install - Riggs			464,069.28	464,069.28	172,200.00	20,175.00		192,375.00	41.45	271,694.28	9,618.75
8-005	HOLD-Quick Ship Cost											
8-006	HOLD-Temp D&H MEP Closets											
8-007	HOLD-Quick Ship Ph.1 Frames											
8-310	Access Doors	26,875.00			26,875.00						26,875.00	
8-360	Overhead Doors	182,300.00		-66,100.00	116,200.00	112,200.00			112,200.00	96.56	4,000.00	5,610.00
8-361	HOLD-Accordion Fire Door			52,610.00	52,610.00						52,610.00	
8-362	HOLD-Low Volt Wiring OHD-Cntrl			5,000.00	5,000.00						5,000.00	
8-363	HOLD-Pocket Door 1,4/A9.7.3			6,000.00	6,000.00						6,000.00	

CONTINUATION SHEET

AIA DOCUMENT G703

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Project: 2153-01 / Arlington High School

Invoice 23
Draw
Application date: 3/15/2022
Period ending date: 2/28/2022

A	B					C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	%(G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)	
						FROM PREV. APPLICATION (D + E)	THIS PERIOD						
8-520	Aluminum Windows	5,670,175.00		1,796.74	5,671,971.74	2,952,827.57			2,952,827.57	52.06	2,719,144.17	147,641.38	
8-620	Modular Skylights	144,000.00		-144,000.00									
8-801	Glass & Glazing (A&A Wndw)	9,000.00		900.00	9,900.00	9,900.00			9,900.00	100.00			
8-802	Glass & Glazing - Kapiloff	718,000.00		197.43	718,197.43	310,359.00			310,359.00	43.21	407,838.43	15,517.99	
8-803	Folding Glass Door	107,000.00		-6,120.00	100,880.00	11,850.00			11,850.00	11.75	89,030.00	592.50	
8-804	HOLD - Mtl Blckg CW Door Gap			6,000.00	6,000.00						6,000.00		
	Subtotal	8,572,380.00	.00	-105,338.41	8,467,041.59	4,485,665.09	20,755.80	.00	4,506,420.89	53.22	3,960,620.70	224,826.08	
	0502-0800 Total	8,572,380.00	.00	-105,338.41	8,467,041.59	4,485,665.09	20,755.80	.00	4,506,420.89	53.22	3,960,620.70	224,826.08	
	0502-0900												
24-017	ALLOW-Phasing Finishes	260,000.00		-49,746.53	210,253.47						210,253.47		
24-040	ALLOW-Temp Electric Cons-Addit			250,000.00	250,000.00						250,000.00		
24-041	ALLOW-Temp Heating Fuel Constr			165,000.00	165,000.00						165,000.00		
24-043	ALLOW-Pedestrian Protcn Ph.2-4			220,000.00	220,000.00						220,000.00		
24-046	ALLOW-Hoisting Not Assigned			300,000.00	300,000.00						300,000.00		
9-101	Temporary Construction	1,500,000.00		-640,698.32	859,301.68						859,301.68		
9-102	Trade Support	1,867,140.00		-948,100.94	919,039.06						919,039.06		
9-103	Pedestrian Protection	440,750.00		-402,102.00	38,648.00						38,648.00		
9-104	Temp Bridge Structure Ph. 1			136,000.00	136,000.00	93,789.00			93,789.00	68.96	42,211.00	4,689.45	
9-220	Drywall (TJ McCartney)	79,100.00		-761.77	78,338.23	78,338.23			78,338.23	100.00			
9-221	Drywall & Carpentry	17,741,616.00		-1,354,339.24	16,387,276.76	6,665,159.79	13,858.42		6,679,018.21	40.76	9,708,258.55	333,950.88	
9-222	HOLD-Temp Construction Items			20,000.00	20,000.00						20,000.00		
9-223	HOLD-EBP3 Patch/Rep Plast			156.77	156.77						156.77		
9-224	HOLD-Inst Temp Plywood Skylght			54,661.81	54,661.81						54,661.81		
9-225	HOLD-Add'l Blocking for FFE			60,000.00	60,000.00						60,000.00		
9-226	HOLD-Acc Sealants @ JBs			150,000.00	150,000.00						150,000.00		
9-227	HOLD-Misc Patching Rough Carp			100,000.00	100,000.00						100,000.00		
9-228	HOLD-Add'l Firestopping			150,000.00	150,000.00						150,000.00		
9-229	HOLD-Ins/Tape 1&3/A6.1.3			50,000.00	50,000.00						50,000.00		
9-230	HOLD-Labor Trade Support			600,000.00	600,000.00						600,000.00		
9-231	HOLD-Lightwell Staging Sp In			25,000.00	25,000.00						25,000.00		
9-232	HOLD-Baseline Cntrl & Survey												
9-301	Tile Subcontractor	1,341,480.00		718,296.35	2,059,776.35	1,095,083.68	2,200.00	36,198.00	1,133,481.68	55.03	926,294.67	56,674.07	
9-401	Terrazzo Flooring	665,510.00			665,510.00	141,160.00			141,160.00	21.21	524,350.00	7,058.00	
9-501	Acoustical Ceilings	2,700.00			2,700.00						2,700.00		
9-502	Acoustical Tile - K&K	2,358,000.00		1,496.00	2,359,496.00	775,325.00	7,675.00		783,000.00	33.19	1,576,496.00	39,150.00	
9-620	Resinous Flooring	250,513.00		-190,223.00	60,290.00						60,290.00		
9-621	HOLD-Floor Protection			20,132.00	20,132.00						20,132.00		
9-622	HOLD-Spcl Pwr Rqmt 480v 3Ph			10,000.00	10,000.00						10,000.00		
9-623	HOLD-FLr Lvl. Mitigation @Slab			20,000.00	20,000.00						20,000.00		
9-627	Athletic Flooring - Synthetic	156,500.00		-35,860.00	120,640.00						120,640.00		
9-628	HOLD-Add FI Lvl. Ptc - Athleti			30,000.00	30,000.00						30,000.00		
9-640	Wood Flooring	497,000.00		-91,570.00	405,430.00						405,430.00		
9-641	HOLD-Floor Protct Gym Per Arts			25,000.00	25,000.00						25,000.00		
9-650	Resilient Flooring	33,990.00		18,719.59	52,709.59	46,949.59			46,949.59	89.07	5,760.00		

CONTINUATION SHEET

AIA DOCUMENT G703

Detail Page 7 of 12 Pages

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						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
9-651	Resilient Floors - Capital	1,629,939.00		574,815.37	2,204,754.37	815,928.22	38,755.80	49,955.00	904,639.02	41.03	1,300,115.35	45,231.96
9-680	Carpet Subcontractor	383,075.00		-37,975.00	345,100.00	207,288.00	10,225.00	15,000.00	232,513.00	67.38	112,587.00	11,625.65
9-681	HOLD-Floor Protection			27,000.00	27,000.00						27,000.00	
9-801	Acoustical Insulation	457,268.00		-12,468.00	444,800.00	165,750.00			165,750.00	37.26	279,050.00	8,287.50
9-802	HOLD-Patch @ \$2,500/day Lift			20,000.00	20,000.00						20,000.00	
9-840	Acoustical Wall Panels	440,800.00		-200,000.00	240,800.00	73,400.00			73,400.00	30.48	167,400.00	3,670.00
9-841	HOLD-Sup. Access Dance Floor			100,000.00	100,000.00						100,000.00	
9-842	HOLD-Trade Support			50,000.00	50,000.00						50,000.00	
9-860	Carpet & Entrance Mats											
9-901	Painting (Color Concepts)	37,800.00		2,441.17	40,241.17	40,241.17			40,241.17	100.00		
9-902	Painting - New Gen	971,000.00		-11,991.14	959,008.86	360,271.08	4,006.30		364,277.38	37.98	594,731.48	18,213.87
	Subtotal	31,114,181.00	.00	-77,116.88	31,037,064.12	10,558,683.76	76,720.52	101,153.00	10,736,557.28	34.59	20,300,506.84	528,551.38
	0502-0900 Total	31,114,181.00	.00	-77,116.88	31,037,064.12	10,558,683.76	76,720.52	101,153.00	10,736,557.28	34.59	20,300,506.84	528,551.38
	0502-1000											
10-001	Specialties	1,322,805.00		-666,424.00	656,381.00	472,476.00			472,476.00	71.98	183,905.00	23,623.80
10-002	Visual Display Boards - NEIS			290,185.00	290,185.00	82,518.53			82,518.53	28.44	207,666.47	4,125.92
10-003	Specialties (TP, TA, FEC, PS)			418,135.00	418,135.00	286,237.42	19,368.61		305,606.03	73.09	112,528.97	15,280.31
10-100	HOLD-Locker Fill/Rep Panels			5,000.00	5,000.00						5,000.00	
10-102	HOLD-Proj Screens NIC Electr			15,000.00	15,000.00						15,000.00	
10-103	HOLD-Aud PS Attach to Steel			10,000.00	10,000.00						10,000.00	
10-401	Signage			2,600.00	2,600.00		2,600.00		2,600.00	100.00		130.00
10-402	Signage	302,609.00		87,108.00	389,717.00	92,221.40	16,450.20		108,671.60	27.88	281,045.40	5,433.58
10-650	Operable Partitions	73,000.00		-12,000.00	61,000.00	41,000.00			41,000.00	67.21	20,000.00	2,050.00
10-651	HOLD - PrePnch Steel fr Op Par			3,040.24	3,040.24						3,040.24	
10-710	Photoluminescent Safety	46,545.00			46,545.00		10,908.00		10,908.00	23.44	35,637.00	545.40
10-801	Toilet & Bath Accessories	29,308.00			29,308.00	27,551.00	1,757.00		29,308.00	100.00		87.85
10-802	HOLD-EBP3 FE Cab. Install											
10-803	HOLD-EBP3 Inst Salv Locker											
24-028	ALLOW-EBP Chngs Specialties	678.00		-678.00								
	Subtotal	1,774,945.00	.00	151,966.24	1,926,911.24	1,002,004.35	51,083.81	.00	1,053,088.16	54.65	873,823.08	51,276.86
	0502-1000 Total	1,774,945.00	.00	151,966.24	1,926,911.24	1,002,004.35	51,083.81	.00	1,053,088.16	54.65	873,823.08	51,276.86
	0502-1100											
11-060	Theater Equipment	782,353.00		-306,853.00	475,500.00	173,800.00	129,450.00	38,700.00	341,950.00	71.91	133,550.00	17,097.50
11-061	HOLD - Labor Support			50,000.00	50,000.00						50,000.00	
11-062	HOLD - Smoke Hatch Closure Rig			5,791.24	5,791.24						5,791.24	
11-063	HOLD - Stage Floor Protection			20,000.00	20,000.00						20,000.00	
11-200	Auditorium Fall Protection			15,927.00	15,927.00		15,507.00		15,507.00	97.36	420.00	775.35
11-201	HOLD - Aud Fall Arr Add Mob			2,500.00	2,500.00						2,500.00	
11-401	Food Service Equipment	669,012.00		-104,401.00	564,611.00	131,450.00	9,399.00	89,963.00	230,812.00	40.88	333,799.00	11,540.60
11-402	HOLD-SS Panels for Temp Kitchn			10,000.00	10,000.00						10,000.00	
11-450	Residential Appliances	223,058.00		1,030.00	224,088.00	70,948.31	21,201.97	38,449.49	130,599.77	58.28	93,488.23	6,529.99
11-480	Gymnasium Equipment	731,884.00		-45,806.00	686,078.00	1,000.00			1,000.00	0.15	685,078.00	50.00
11-481	Sup Steel for Mat Hoist Attach			15,000.00	15,000.00						15,000.00	

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						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
11-482	HOLD-Ath Equip - LV Wiring			5,000.00	5,000.00						5,000.00	
11-910	Window Washing Equipment	83,700.00		-6,000.00	77,700.00	39,300.00			39,300.00	50.58	38,400.00	1,965.01
11-911	HOLD-Window Wash Layout Ass			5,000.00	5,000.00						5,000.00	
11-912	HOLD-Ph.2 Hoisting Support			1,000.00	1,000.00						1,000.00	
11-920	Clock	43,295.00			43,295.00						43,295.00	
24-044	ALLOW-Additional Kitchen Equip			103,000.00	103,000.00						103,000.00	
	Subtotal	2,533,302.00	.00	-228,811.76	2,304,490.24	416,498.31	175,557.97	167,112.49	759,168.77	32.94	1,545,321.47	37,958.45
	0502-1100 Total	2,533,302.00	.00	-228,811.76	2,304,490.24	416,498.31	175,557.97	167,112.49	759,168.77	32.94	1,545,321.47	37,958.45
	0502-1200											
12-350	Laboratory Casework	1,983,800.00		-5,909.00	1,977,891.00	1,147,956.49	10,008.50		1,157,964.99	58.55	819,926.01	57,898.26
12-351	HOLD - Add Fume Hood Training			1,000.00	1,000.00						1,000.00	
12-352	HOLD - Fume Hood Testin			5,000.00	5,000.00						5,000.00	
12-490	Window Treatments	225,000.00		-40,205.00	184,795.00	51,535.00	25,860.00		77,395.00	41.88	107,400.00	3,869.75
12-491	HOLD-Wiring WT Motors			13,000.00	13,000.00						13,000.00	
12-610	Auditorium Seating	296,222.00		-26,205.00	270,017.00	3,000.00			3,000.00	1.11	267,017.00	150.00
12-611	HOLD - Baseline Control/Survey											
12-612	HOLD - F/I (30) Add Storage Ra			1,000.00	1,000.00						1,000.00	
12-613	HOLD - Offsite Seating Storage			5,000.00	5,000.00						5,000.00	
	Subtotal	2,505,022.00	.00	-47,319.00	2,457,703.00	1,202,491.49	35,868.50	.00	1,238,359.99	50.39	1,219,343.01	61,918.01
	0502-1200 Total	2,505,022.00	.00	-47,319.00	2,457,703.00	1,202,491.49	35,868.50	.00	1,238,359.99	50.39	1,219,343.01	61,918.01
	0502-1400											
14-210	Elevator (Delta)	690,000.00			690,000.00	198,200.00	2,000.00		200,200.00	29.01	489,800.00	10,010.00
	Subtotal	690,000.00	.00	.00	690,000.00	198,200.00	2,000.00	.00	200,200.00	29.01	489,800.00	10,010.00
	0502-1400 Total	690,000.00	.00	.00	690,000.00	198,200.00	2,000.00	.00	200,200.00	29.01	489,800.00	10,010.00
	0502-2100											
15-301	Fire Protection (Rustic)	125,000.00			125,000.00	125,000.00			125,000.00	100.00		
15-302	Fire Protection - Delta	2,562,300.00		-13,794.82	2,548,505.18	1,264,475.00	7,463.18		1,271,938.18	49.91	1,276,567.00	63,596.92
24-018	ALLOW-Phasing Fire Suppression	65,000.00			65,000.00						65,000.00	
	Subtotal	2,752,300.00	.00	-13,794.82	2,738,505.18	1,389,475.00	7,463.18	.00	1,396,938.18	51.01	1,341,567.00	63,596.92
	0502-2100 Total	2,752,300.00	.00	-13,794.82	2,738,505.18	1,389,475.00	7,463.18	.00	1,396,938.18	51.01	1,341,567.00	63,596.92
	0502-2200											
15-401	Plumbing (PJ Kennedy)	118,900.00			118,900.00	118,900.00			118,900.00	100.00		
15-402	Plumbing EBP#3 (Irvine & Sons)	48,880.00		13,695.73	62,575.73	62,575.73			62,575.73	100.00		
15-403	Plumbing - E. Amanti	5,640,000.00		8,615.00	5,648,615.00	2,686,226.00	10,489.00		2,696,715.00	47.74	2,951,900.00	134,835.75
24-019	ALLOW-Phasing Plumbing	65,000.00		-24,099.00	40,901.00						40,901.00	
24-029	ALLOW-EBP Chngs Plumbing	5,957.00		-5,956.81	0.19						0.19	
	Subtotal	5,878,737.00	.00	-7,745.08	5,870,991.92	2,867,701.73	10,489.00	.00	2,878,190.73	49.02	2,992,801.19	134,835.75
	0502-2200 Total	5,878,737.00	.00	-7,745.08	5,870,991.92	2,867,701.73	10,489.00	.00	2,878,190.73	49.02	2,992,801.19	134,835.75
	0502-2300											
15-501	HVAC (CAM HVAC)	167,000.00		21,354.30	188,354.30	188,354.30			188,354.30	100.00		

CONTINUATION SHEET

AIA DOCUMENT G703

AIA Document G702, APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signed certification is attached.

Project: 2153-01 / Arlington High School

Invoice 23
Draw
Application date: 3/15/2022
Period ending date: 2/28/2022

In tabulations below, amounts are stated to the nearest dollar.
Use Column I on contracts where variable retainage for items may apply.

A	B				C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
15-502	HVAC - PJ Kennedy	30,173,000.00		70,487.75	30,243,487.75	12,701,379.94	185,476.52		12,886,856.46	42.61	17,356,631.29	644,342.86
15-503	Vapor Mitigation Fan Allowance	175,000.00		-175,000.00								
24-020	ALLOW-Phasing HVAC	65,000.00		-64,999.64	0.36						0.36	.
24-030	ALLOW-EBP Chngs HVAC	1,035.00		-1,035.09	-0.09						-0.09	.
24-047	ALLOW-Vapor Mitigation Fans			175,000.00	175,000.00						175,000.00	.
	Subtotal	30,581,035.00	.00	25,807.32	30,606,842.32	12,889,734.24	185,476.52	.00	13,075,210.76	42.72	17,531,631.56	644,342.86
	0502-2300 Total	30,581,035.00	.00	25,807.32	30,606,842.32	12,889,734.24	185,476.52	.00	13,075,210.76	42.72	17,531,631.56	644,342.86
	0502-2600											
16-001	Electrical (WJGE)	187,200.00		80,571.95	267,771.95	267,771.95			267,771.95	100.00		.
16-002	Electrical - WJGE	18,758,000.00		525,097.02	19,283,097.02	10,318,366.04	146,160.08		10,464,526.12	54.27	8,818,570.90	523,226.30
16-003	Electrical EBP#3 (WJGE)	194,890.00		15,906.20	210,796.20	210,796.20			210,796.20	100.00		.
16-004	Temp Electric - YES			15,421.64	15,421.64	10,719.63			10,719.63	69.51	4,702.01	.
16-005	Allowances for Electrical	750,000.00		-750,000.00								.
24-011	ALLOW - Temp IT/DPW Coord	300,000.00		-25,755.14	274,244.86						274,244.86	.
24-021	ALLOW-Phasing Electrical	65,000.00		-65,000.12	-0.12						-0.12	.
24-031	ALLOW-EBP Chngs Electrical	43,514.00		-42,451.01	1,062.99						1,062.99	.
24-045	ALLOW-Additional Electrical			470,303.76	470,303.76						470,303.76	.
	Subtotal	20,298,604.00	.00	224,094.30	20,522,698.30	10,807,653.82	146,160.08	.00	10,953,813.90	53.37	9,568,884.40	523,226.30
	0502-2600 Total	20,298,604.00	.00	224,094.30	20,522,698.30	10,807,653.82	146,160.08	.00	10,953,813.90	53.37	9,568,884.40	523,226.30
	0502-3100											
1-220	Temp Fencing (Riggs)	184,330.00		-12,303.00	172,027.00	129,019.00			129,019.00	75.00	43,008.00	6,450.95
1-223	HOLD-Temp Fence Maintenance			12,303.00	12,303.00						12,303.00	.
2-304	Temporary Fencing	244,568.00			244,568.00						244,568.00	.
2-740	Piles	2,166,800.00		-170,750.00	1,996,050.00						1,996,050.00	.
2-741	HOLD-Extra PIFs/Rejected PIFs			56,250.00	56,250.00						56,250.00	.
2-742	HOLD-50hrs Down Time Obstruct			90,000.00	90,000.00						90,000.00	.
2-743	HOLD-Fill Aband Holes W. Conc			15,000.00	15,000.00						15,000.00	.
2-744	HOLD-Disp of Pile Cutoff			9,500.00	9,500.00						9,500.00	.
	Subtotal	2,595,698.00	.00	.00	2,595,698.00	129,019.00		.00	129,019.00	4.97	2,466,679.00	6,450.95
	0502-3100 Total	2,595,698.00	.00	.00	2,595,698.00	129,019.00		.00	129,019.00	4.97	2,466,679.00	6,450.95
	0502-3200											
2-401	Sitework (Derenzo)	8,130,000.00		-19,546.91	8,110,453.09	7,549,500.40	11,550.00		7,561,050.40	93.23	549,402.69	192,408.84
2-402	HOLD-Obs. Rem. @ All SOE			63,067.25	63,067.25						63,067.25	.
24-024	ALLOW-EBP Chngs Sitework	140,000.00		-139,590.26	409.74	-15,660.26			-15,660.26	3,822.00	16,070.00	-783.02
2-403	Sitework - Phase 2-4	12,468,000.00		-741,911.28	11,726,088.72	562,588.72			562,588.72	4.80	11,163,500.00	28,129.43
24-032	ALLOW-Clean Corridor			100,000.00	100,000.00						100,000.00	.
24-033	ALLOW-Add'l Water Treat Bynd 9			100,000.00	100,000.00						100,000.00	.
24-034	ALLOW-Foundation Obstructions			75,000.00	75,000.00						75,000.00	.
24-035	ALLOW-Sewer Bypass			50,000.00	50,000.00						50,000.00	.
24-036	ALLOW-Repair Eng. Barrier			50,000.00	50,000.00						50,000.00	.
24-037	ALLOW-Street Sweep Bynd Base C			90,000.00	90,000.00						90,000.00	.
2-404	HOLD-Add Grnd. Improvements			36,526.00	36,526.00						36,526.00	.

CONTINUATION SHEET

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Project: 2153-01 / Arlington High School

Invoice 23
Draw
Application date: 3/15/2022
Period ending date: 2/28/2022

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ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
2-405	HOLD-Summer 21 PE Exst Cond Su											
2-406	HOLD-Mod Ex. W. Lot Ret Wall			26,393.75	26,393.75						26,393.75	.
2-407	HOLD-Snow Plowing Ph. 1			40,000.00	40,000.00						40,000.00	.
2-408	HOLD-Snow Plow & Sand			90,000.00	90,000.00						90,000.00	.
2-409	HOLD-BY-PASS for Storm Line			48,655.08	48,655.08						48,655.08	.
2-410	HOLD-6" Grav at Bollard L7.09			70,000.00	70,000.00						70,000.00	.
2-411	HOLD-Conc DB Encas RFI-131			56,000.00	56,000.00						56,000.00	.
2-412	HOLD-Baseline Control/Survey											.
2-890	Synthetic Athletic Surfacing	1,551,300.00		-316,600.00	1,234,700.00						1,234,700.00	.
2-891	HOLD-Out of Seq Mat. Handling			50,000.00	50,000.00						50,000.00	.
2-892	HOLD-Perim Anchor Trench Coord			20,000.00	20,000.00						20,000.00	.
2-922	Fencing (>6' h)	1,067,430.00			1,067,430.00						1,067,430.00	.
2-970	Landscapping Subcontractor	3,485,126.00		-651,221.50	2,833,904.50	142,925.00	37,704.50	12,000.00	192,629.50	6.80	2,641,275.00	9,631.48
2-971	HOLD-Temp Topsoil, Seeding, LS			40,000.00	40,000.00						40,000.00	.
2-972	HOLD-Layout & Control Phase 4			50,000.00	50,000.00						50,000.00	.
2-973	HOLD-Truck&Disp Suprt Soil Ph4			90,000.00	90,000.00						90,000.00	.
	Subtotal	26,841,856.00	.00	-723,227.87	26,118,628.13	8,239,353.86	49,254.50	12,000.00	8,300,608.36	31.78	17,818,019.77	229,386.73
	0502-3200 Total	26,841,856.00	.00	-723,227.87	26,118,628.13	8,239,353.86	49,254.50	12,000.00	8,300,608.36	31.78	17,818,019.77	229,386.73
	0508-0000											
CR-072	CO-01 PR-002 Expand Terrazzo Flr Caf		219,338.20		219,338.20						219,338.20	.
	CO-01 Subtotal		219,338.20	.00	219,338.20			.00			219,338.20	.
	CO-02											.
CR-095	CCD-013.1 Rev Toilet Rm Layout		4,931.14		4,931.14	4,931.14			4,931.14	100.00		246.56
CR-108	ASI-045.1 - 045 - RFI#267 Gas		5,483.32		5,483.32	4,198.00			4,198.00	76.56	1,285.32	209.90
CR-120	ASI051.2-051.1 & 051-Rev Workb		21,881.43		21,881.43	21,881.43			21,881.43	100.00		1,094.07
CR-131	ASI062 Rev Door 227B		936.37		936.37	936.37			936.37	100.00		46.81
	CO-02 Subtotal		33,232.26	.00	33,232.26	31,946.94		.00	31,946.94	96.13	1,285.32	1,597.34
	CO-03											.
CR-079	ASI-034 Revs to Steel Part E		-246.40		-246.40	-246.40			-246.40	100.00		-12.32
CR-103	RFI-221 Custodian Plumbing Fur		1,343.66		1,343.66	1,343.66			1,343.66	100.00		67.18
CR-106	CCD-017 Remv Elev Pit Walls &B		10,731.04		10,731.04	10,731.04			10,731.04	100.00		536.55
CR-110	RFI-269 Plumb Pipe for P-9 Snk		4,717.58		4,717.58	4,717.58			4,717.58	100.00		235.88
CR-144	F/I Beam Wrap S. Lobby Entranc		23,645.14		23,645.14	10,894.62			10,894.62	46.08	12,750.52	544.62
CR-151	RFI-339 D Lab Soffit Revs Shad		8,935.46		8,935.46	8,935.46			8,935.46	100.00		446.77
CR-162	ASI-091 RFI-252 Steps @Elevati		19,038.40		19,038.40	19,038.40			19,038.40	100.00		951.92
CR-164	RFI-356 F/I Added Quad Outlet		400.31		400.31	400.31			400.31	100.00		20.02
	CO-03 Subtotal		68,565.19	.00	68,565.19	55,814.67		.00	55,814.67	81.40	12,750.52	2,790.62
	CO-04											.
CR-086	CCD-011 RFI167 Bldg D Roof Edg		40,668.63		40,668.63	40,668.63			40,668.63	100.00		2,033.43
CR-093	RFI216.1 Stair 2 Fire Rated Ce		4,093.65		4,093.65	4,093.65			4,093.65	100.00		204.68
CR-104	ASI-039 Bldg D Partition Shift		1,426.09		1,426.09	1,426.09			1,426.09	100.00		71.30
CR-109	RFI-285.3, .2, .1, 285 Emergen		3,616.12		3,616.12	3,616.12			3,616.12	100.00		180.81
CR-111	RFI-279 Drywall Tops @Elec. Rm		11,592.09		11,592.09	11,592.09			11,592.09	100.00		579.60
CR-125	Unclouded Duct Revs ASI-033		20,371.34		20,371.34	20,371.34			20,371.34	100.00		1,018.57

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Project:
2153-01 / Arlington High School

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ITEM NO.	DESCRIPTION OF WORK	ORIGINAL BUDGET	APPROVED CHANGE ORDERS	APPROVED TRANSFERS	SCHEDULED VALUE	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D / E)	TOTAL COMPLETED AND STORED TO DATE (D + E + F)	% (G / C)	BALANCE TO FINISH (C - G)	RETAINAGE (IF VARIABLE RATE)
						FROM PREV. APPLICATION (D + E)	THIS PERIOD					
CR-126	ASI-059 RFI299 Ensemble Rm											
CR-173	ASI-100 Photoluminescent Nosing					4,653.48	-4,653.48					
	CO-04 Subtotal		81,767.92	.00	81,767.92	86,421.40	-4,653.48	.00	81,767.92	100.00		4,088.39
	CO-05											
CR-113	ASI-085 Ceiling Height Changes		2,762.90		2,762.90						2,762.90	
CR-139	ASI-070 Bldg D - 2nd Flr Stora		542.46		542.46	542.46			542.46	100.00		27.12
CR-212	CCD-028 Add Tablet Arms @DLAB		18,882.05		18,882.05						18,882.05	
CR-224	RFI-466 Knife Edge Soffit Bloc		21,143.73		21,143.73	21,143.73			21,143.73	100.00		1,057.19
	CO-05 Subtotal		43,331.14	.00	43,331.14	21,686.19		.00	21,686.19	50.05	21,644.95	1,084.31
	CO-06											
C1-08A	CR108A ASI-045.1 Out of Seq Dr		3,768.73		3,768.73	3,768.73			3,768.73	100.00		188.44
CR-105	RFI-219 Duct Ceiling Conflicts		11,995.65		11,995.65	11,995.65			11,995.65	100.00		599.78
CR-119	CCD-018 Add Homosote TB's & Ra		3,758.74		3,758.74	-1,588.80			-1,588.80	42.27	5,347.54	-79.44
CR-129	CCD-021 Plumbing Chngs @WaterH											
CR-137	ASI-068 Revs to Drink Fountain		1,628.62		1,628.62	1,628.62			1,628.62	100.00		81.43
CR-140	ASI-071.1 Revs to Fire Ext. &		4,550.10		4,550.10	346.96			346.96	7.63	4,203.14	17.35
CR-145	RFI-328.1 VAVr Relocated		2,230.33		2,230.33	2,230.33			2,230.33	100.00		111.52
CR-146	RFI-338 Auditorium Slab Openin		1,147.40		1,147.40	1,147.40			1,147.40	100.00		57.37
CR-205	CCD-027 ASI124 Added Channel		29,229.32		29,229.32	29,229.32			29,229.32	100.00		1,461.47
CR-211	RFI-416.1 Added Furring Wall R		1,112.38		1,112.38	1,112.38			1,112.38	100.00		55.62
	CO-06 Subtotal		59,421.27	.00	59,421.27	49,870.59		.00	49,870.59	83.93	9,550.68	2,493.54
	CO-07											
CR-130	ASI63.2,63.1,63-Lckrs, ADA Ben		10,819.17		10,819.17	522.01			522.01	4.82	10,297.16	26.09
CR-134	CCD022 Creation of Niches for		31,659.81		31,659.81	17,817.87	8,815.00		26,632.87	84.12	5,026.94	1,331.64
CR-135	ASI066 Revs to Paging Speakers		2,251.71		2,251.71		2,251.71		2,251.71	100.00		112.59
CR-153	ASI-080 Ceilg,Cswrk,Arch,Elect		10,675.26		10,675.26	1,447.87	5,677.13		7,125.00	66.74	3,550.26	356.26
CR-155	ASI-060 Acoustic Spray Insulat		-396.45		-396.45						-396.45	
CR-160	ASI-088.2,88.1,88 Revs Ceilg H		5,687.71		5,687.71	5,687.71			5,687.71	100.00		284.39
CR-161	ASI-089 Canopy Roof 2nd Row Li		5,526.62		5,526.62	5,526.62			5,526.62	100.00		276.33
CR-165	ASI083 Struct Steel Revs BldgB		1,384.68		1,384.68						1,384.68	
CR-170	ASI-113 Trapezoid Lght Wells C		9,547.35		9,547.35	9,547.35			9,547.35	100.00		477.37
CR-174	RFI390 Furring Wall @D5 Colmn		3,331.55		3,331.55	3,331.55			3,331.55	100.00		166.58
CR-198	RFI-330.1 Added Drain Pan 227		1,212.18		1,212.18	1,212.18			1,212.18	100.00		60.61
	CO-07 Subtotal		81,699.59	.00	81,699.59	45,093.16	16,743.84	.00	61,837.00	75.69	19,862.59	3,091.86
	CO-08											
CR-089	CCD015,015.1,015.2- RFI131 Sit		16,190.48		16,190.48	16,190.48			16,190.48	100.00		809.52
CR-188	ASI114 Receptacle &TStat Locat		1,080.44		1,080.44	1,080.44			1,080.44	100.00		54.02
CR-196	RFI431 Electric Unit Heater		3,466.03		3,466.03		3,466.03		3,466.03	100.00		173.30
CR-210	RFI291 Added Condensate Receiv		2,462.09		2,462.09		2,462.09		2,462.09	100.00		123.10
CR-214	National Grid UG Conduit in Co		32,418.02		32,418.02		32,418.02		32,418.02	100.00		1,620.90
CR-235	ASI140 Mech Revs L4 Bldg D&B		5,405.30		5,405.30	5,405.30			5,405.30	100.00		270.27
CR-263	RFI477 Drain Conflict w/Underg		9,976.02		9,976.02						9,976.02	
CR-276	RFI489 Theater Emergency Light		16,087.79		16,087.79		16,087.79		16,087.79	100.00		804.39
	CO-08 Subtotal		87,086.17	.00	87,086.17	22,676.22	54,433.93	.00	77,110.15	88.54	9,976.02	3,855.50
	CO-09											

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Invoice **23**
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 Application date: **3/15/2022**
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[illegible]

G703-1992

Arlington High School
REQ #23 Retainage Tracking Log

Subcontractor	Contract Value	Previously Billed	Billed to Date	Current Bill	Previous Retainage Held	Current Retainage Held	Total Retainage	Retainage %	Retainage Released	Current Pay App
0502-0010 - Contractor's Fee	4,733,848.00	1,679,744.00	1,756,096.00	76,352.00	83,987.20	3,817.60	87,804.80	5.0%	-	72,534.40
0502-0020 - Insurances	6,212,555.00	6,199,096.83	6,212,555.00	13,458.17	309,954.84	672.91	310,627.75	5.0%	-	12,785.26
0502-0030 - Contingency	6,565,501.42	-	-	-	-	-	-	-	-	-
0502-0100 - General Conditions	11,931,225.00	4,737,568.00	4,952,912.00	215,344.00	236,878.40	10,767.20	247,645.60	5.0%	-	204,576.80
0502-0100 - General Requirements	7,151,506.45	4,817,785.67	5,016,931.67	199,146.00	240,889.30	9,957.30	250,846.60	5.0%	-	189,188.70
0502-0200 - Existing Conditions (Costello)	5,744,117.07	490,678.51	490,678.51	-	24,533.93	-	24,533.93	5.0%	-	-
0502-0200 - Existing Conditions (Holds & Allowances)	350,993.05	-	-	-	-	-	-	-	-	-
0502-0200 - Existing Conditions	845,000.00	-	-	-	-	-	-	-	-	-
0502-0300 - Concrete EBP#4 (Riggs)	3,862,927.49	3,849,597.49	3,849,597.49	-	96,416.67	-	96,416.67	2.5%	-	-
0502-0300 - Concrete EBP#3 (Riggs)	10,389.29	10,389.29	10,389.29	-	-	-	-	0.0%	-	-
0502-0300 - Concrete Phase 2-4	11,056,118.07	-	-	-	-	-	-	-	-	-
0502-0300 - Concrete Polished Concrete	178,920.00	95,708.00	95,708.00	-	4,785.40	-	4,785.40	5.0%	-	-
0502-0300 - Concrete (Holds)	224,794.31	-	-	-	-	-	-	-	-	-
0502-0300 - Concrete (Allowances)	106,260.25	(4,993.75)	(4,993.75)	-	(249.69)	-	(249.69)	5.0%	-	-
0502-0400 - Masonry (Empire)	6,708,803.00	2,199,950.00	2,199,950.00	-	109,997.50	-	109,997.50	5.0%	-	-
0502-0500 - Metals (Trimax)	7,156,361.79	7,137,727.45	7,156,361.79	18,634.34	183,134.55	465.86	183,600.41	2.5%	-	18,168.48
0502-0500 - Metals (Holds)	10,792,731.32	-	-	-	-	-	-	-	-	-
0502-0500 - Metals Structural Steel Ph. 2 & 3	635,700.64	324,119.08	336,803.08	12,684.00	16,205.99	634.20	16,840.19	5.0%	-	12,049.80
0502-0500 - Metals Misc Metals (Avid Ironworks)	1,556,256.00	474,502.50	481,192.00	6,689.50	23,725.13	334.49	24,059.62	5.0%	-	6,355.01
0502-0500 - Metals (Allowances)	357,491.17	-	-	-	-	-	-	-	-	-
0502-0600 - Wood/Plastic/Composites (Padco)	7,354.00	7,354.00	7,354.00	-	192.50	-	192.50	2.5%	-	-
0502-0600 - Wood/Plastic/Composites (Riggs)	3,741,924.71	2,072,553.40	2,187,003.40	114,450.00	103,165.12	5,722.50	108,887.62	4.9%	-	108,727.50
0502-0600 - Wood/Plastic/Composites (Allowances)	52,416.86	-	-	-	-	-	-	-	-	-
0502-0600 - Wood/Plastic/Composites (Holds)	35,914.05	-	-	-	-	-	-	-	-	-
0502-0700 - Thermal & Moisture Waterproofing (PJ Spillane)	1,542,000.00	582,000.00	582,000.00	-	29,100.00	-	29,100.00	5.0%	-	-
0502-0700 - Thermal & Moisture (Budget Maintenance)	670,000.00	278,998.79	278,998.79	-	13,949.93	-	13,949.93	5.0%	-	-
0502-0700 - Thermal & Moisture Engineered Barrier	118,650.00	-	-	-	-	-	-	-	-	-
0502-0700 - Thermal & Moisture Ext Wall Panels	1,441,000.00	824,534.15	843,127.15	18,593.00	41,226.70	929.65	42,156.35	5.0%	-	17,663.35
0502-0700 - Thermal & Moisture Roofing (Greenwood)	3,498,906.15	1,140,484.90	1,140,484.90	-	57,024.25	-	57,024.25	5.0%	-	-
0502-0700 - Thermal & Moisture Protection (Titan)	27,036.00	27,036.00	27,036.00	-	-	-	-	0.0%	-	-
0502-0700 - Thermal & Moisture Fireproofing (Island)	1,297,064.58	521,118.74	521,118.74	-	26,055.88	-	26,055.88	5.0%	-	-
0502-0700 - Thermal & Moisture (Holds)	276,600.00	-	-	-	-	-	-	-	-	-
0502-0700 - Thermal & Moisture (Allowances)	60,407.29	-	-	-	-	-	-	-	-	-
0502-0800 - Doors & Windows (Horner)	22,900.00	22,900.00	22,900.00	-	1,145.00	-	1,145.00	5.0%	-	-
0502-0800 - Doors & Windows (Eaton)	1,255,578.14	882,568.52	883,149.32	580.80	44,128.42	29.04	44,157.46	5.0%	-	551.76
0502-0800 - Doors & Windows D&H Install (Riggs)	10,860.00	10,860.00	10,860.00	-	543.00	-	543.00	5.0%	-	-
0502-0800 - Doors & Windows Install	464,069.28	172,200.00	192,375.00	20,175.00	8,610.00	1,008.75	9,618.75	5.0%	-	19,166.25
0502-0800 - Doors & Windows Access Doors	26,875.00	-	-	-	-	-	-	-	-	-
0502-0800 - Doors & Windows Overhead Doors (Baron)	116,200.00	112,200.00	112,200.00	-	5,610.00	-	5,610.00	5.0%	-	-
0502-0800 - Doors & Windows (R&R)	5,671,971.74	2,952,827.57	2,952,827.57	-	147,641.38	-	147,641.38	5.0%	-	-
0502-0800 - Doors & Windows Glass & Glazing (A&A)	9,900.00	9,900.00	9,900.00	-	-	-	-	0.0%	-	-
0502-0800 - Doors & Windows (Kaploff's)	718,197.43	310,359.00	310,359.00	-	15,517.99	-	15,517.99	5.0%	-	-
0502-0800 - Doors & Windows Folding Door	100,880.00	11,850.00	11,850.00	-	592.50	-	592.50	5.0%	-	-
0502-0800 - Doors & Windows (Holds)	69,610.00	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes Temp Construction	859,301.68	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes Trade Support	919,039.06	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes Pedestrian Protection	38,648.00	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes Temp Bridge Structure Ph.1 (Rubb)	136,000.00	93,789.00	93,789.00	-	4,689.45	-	4,689.45	5.0%	-	-
0502-0900 - Finishes (TJM)	78,338.23	78,338.23	78,338.23	-	-	-	-	0.0%	-	-
0502-0900 - Finishes Drywall & Carpentry (Colony)	16,387,276.76	6,665,159.79	6,679,018.21	13,858.42	333,257.96	692.92	333,950.88	5.0%	-	13,165.50
0502-0900 - Finishes Tile	2,059,776.35	1,095,083.68	1,133,481.68	38,398.00	54,754.18	1,919.89	56,674.07	5.0%	-	36,478.11
0502-0900 - Finishes Terrazzo Flooring	665,510.00	141,160.00	141,160.00	-	7,058.00	-	7,058.00	5.0%	-	-
0502-0900 - Finishes (ACT)	2,700.00	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes (K&K)	2,359,496.00	775,325.00	783,000.00	7,675.00	38,766.25	383.75	39,150.00	5.0%	-	7,291.25
0502-0900 - Finishes Resinous Flooring	60,290.00	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes Athletic Flooring	120,640.00	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes Wood Flooring	405,430.00	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes (Resilient Flooring)	52,709.59	46,949.59	46,949.59	-	-	-	-	0.0%	-	-
0502-0900 - Finishes Resilient Flooring (Capital)	2,204,754.37	815,928.22	904,639.02	88,710.80	40,796.42	4,435.54	45,231.96	5.0%	-	84,275.26
0502-0900 - Finishes Carpet	345,100.00	207,288.00	232,513.00	25,225.00	10,364.40	1,261.25	11,625.65	5.0%	-	23,963.75
0502-0900 - Finishes Acoustical Insulation	444,800.00	165,750.00	165,750.00	-	8,287.50	-	8,287.50	5.0%	-	-
0502-0900 - Finishes Acoustical Wall Panels	240,800.00	73,400.00	73,400.00	-	3,670.00	-	3,670.00	5.0%	-	-
0502-0900 - Finishes (Color Concepts)	40,241.17	40,241.17	40,241.17	-	-	-	-	0.0%	-	-
0502-0900 - Finishes Painting (New Generation)	959,008.86	360,271.08	364,277.38	4,006.30	18,013.55	200.32	18,213.87	5.0%	-	3,805.98
0502-0900 - Finishes (Holds)	1,511,950.58	-	-	-	-	-	-	-	-	-
0502-0900 - Finishes (Allowances)	1,145,253.47	-	-	-	-	-	-	-	-	-
0502-1000 - Specialties	656,381.00	472,476.00	472,476.00	-	23,623.80	-	23,623.80	5.0%	-	-
0502-1000 - Specialties Visual Display Boards (NEIS)	290,185.00	82,518.53	82,518.53	-	4,125.92	-	4,125.92	5.0%	-	-
0502-1000 - Specialties (TP, TA, FEC, PS)	418,135.00	286,237.42	305,606.03	19,368.61	14,311.88	968.43	15,280.31	5.0%	-	18,400.18
0502-1000 - Specialties Signage	2,600.00	2,600.00	2,600.00	-	130.00	-	130.00	5.0%	-	2,470.00
0502-1000 - Specialties Signage	389,717.00	92,221.40	108,671.60	16,450.20	4,611.07	822.51	5,433.58	5.0%	-	15,627.69
0502-1000 - Specialties Operable Partitions (Corbin-Hufcor)	61,000.00	41,000.00	41,000.00	-	2,050.00	-	2,050.00	5.0%	-	-
0502-1000 - Specialties Photoluminescent Safety	46,545.00	-	10,908.00	10,908.00	-	545.40	545.40	5.0%	-	10,362.60
0502-1000 - Specialties (Automation)	29,308.00	27,551.00	29,308.00	1,757.00	-	87.85	87.85	0.0%	-	1,669.15
0502-1000 - Specialties (Holds)	33,040.24	-	-	-	-	-	-	-	-	-
0502-1000 - Specialties (Allowances)	-	-	-	-	-	-	-	-	-	-
0502-1100 - Equipment Theater Equip	475,500.00	173,800.00	341,950.00	168,150.00	8,690.00	8,407.50	17,097.50	5.0%	-	159,742.50
0502-1100 - Equipment Auditorium Fall Protection	15,927.00	-	15,507.00	15,507.00	-	775.35	775.35	5.0%	-	14,731.65
0502-1100 - Equipment Food Service	564,611.00	131,450.00	230,812.00	99,362.00	6,572.50	4,968.10	11,540.60	5.0%	-	94,393.90
0502-1100 - Equipment Appliances	224,088.00	70,948.31	130,599.77	59,651.46	3,547.42	2,982.57	6,529.99	5.0%	-	56,668.89
0502-1100 - Equipment Gym (Robert H Lord)	686,078.00	1,000.00	1,000.00	-	50.00	-	50.00	5.0%	-	-
0502-1100 - Equipment Window Washing Equip. (Peak)	77,700.00	39,300.00	39,300.00	-	1,965.01	-	1,965.01	5.0%	-	-
0502-1100 - Equipment (Holds)	114,291.24	-	-	-	-	-	-	-	-	-
0502-1100 - Equipment Clock	43,295.00	-	-	-	-	-	-	-	-	-
0502-1100 - Equipment (Allowances)	103,000.00	-	-	-	-	-	-	-	-	-
0502-1200 - Furnishings Lab Casework	1,977,891.00	1,147,956.49	1,157,964.99	10,008.50	57,397.83	500.43	57,898.26	5.0%	-	9,508.07
0502-1200 - Furnishings Window Treatments	184,795.00	51,535.00	77,395.00	25,860.00	2,576.75	1,293.00	3,869.75	5.0%	-	24,567.00
0502-1200 - Furnishings Auditorium Seating	270,017.00	3,000.00	3,000.00	-	150.00	-	150.00	5.0%	-	-
0502-1200 - Furnishings (Holds)	25,000.00	-	-	-	-	-	-	-	-	-
0502-1400 - Elevators (Delta)	690,000.00	198,200.00	200,200.00	2,000.00	9,910.00	100.00	10,010.00	5.0%	-	1,900.00
0502-2100 - Fire Protection (Rustic)	125,000.00	125,000.00	125,000.00	-	-	-	-	0.0%	-	-
0502-2100 - Fire Protection (Delta)	2,548,505.18	1,264,475.00	1,271,938.18	7,463.18	63,223.76	373.16	63,596.92	5.0%	-	7,090.02
0502-2100 - Fire Protection (Allowances)	65,000.00	-	-	-	-	-	-	-	-	-
0502-2200 - Plumbing (PJ Kenney)	118,900.00	118,900.00	118,900.00	-	-	-	-	0.0%	-	-
0502-2200 - Plumbing EBP#3 (Irvine & Sons)	62,575.73	62,575.73	62,575.73	-	-	-	-	0.0%	-	-
0502-2200 - Plumbing (E. Amanti)	5,648,615.00	2,686,226.00	2,696,715.00	10,489.00	134,311.30	524.45	134,835.75	5.0%	-	9,964.55
0502-2200 - Plumbing (Allowances)	40,901.19	-	-	-	-	-	-	-	-	-
0502-2300 - HVAC (CAM HVAC)	188,354.30	188,354.30	188,354.30	-	-	-	-	0.0%	-	-

0502-2300 - HVAC (PJ Kennedy)	30,243,487.75	12,701,379.94	12,886,856.46	185,476.52	635,069.03	9,273.83	644,342.86	5.0%	-	176,202.69
0502-2300 - HVAC (Allowances)	175,000.27	-	-	-	-	-	-	-	-	-
0502-2600 - Electrical (WJGE)	267,771.95	267,771.95	267,771.95	-	-	-	-	0.0%	-	-
0502-2600 - Electrical (WJGE)	19,283,097.02	10,318,366.04	10,464,526.12	146,160.08	515,918.30	7,308.00	523,226.30	5.0%	-	138,852.08
0502-2600 - Electrical EBP#3 (WJGE)	210,796.20	210,796.20	210,796.20	-	-	-	-	0.0%	-	-
0502-2600 - Electrical Temp (YES)	15,421.64	10,719.63	10,719.63	-	-	-	-	0.0%	-	-
0502-2600 - Electrical (Allowances)	745,611.49	-	-	-	-	-	-	-	-	-
0502-3100 - Earthwork (Riggs)	172,027.00	129,019.00	129,019.00	-	6,450.95	-	6,450.95	5.0%	-	-
0502-3100 - Earthwork Temp Fencing	244,568.00	-	-	-	-	-	-	-	-	-
0502-3100 - Earthwork Piles	1,996,050.00	-	-	-	-	-	-	-	-	-
0502-3100 - Earthwork (Holds)	183,053.00	-	-	-	-	-	-	-	-	-
0502-3200 - Exterior Improvements (Derenzo)	8,110,453.09	7,549,500.40	7,561,050.40	11,550.00	191,831.34	577.50	192,408.84	2.5%	-	10,972.50
0502-3200 - Exterior Improvements (Holds)	680,642.08	-	-	-	-	-	-	-	-	-
0502-3200 - Exterior Improvements	11,726,088.72	562,588.72	562,588.72	-	28,129.43	-	28,129.43	5.0%	-	-
0502-3200 - Exterior Improvements (Allowances)	465,409.74	(15,660.26)	(15,660.26)	-	(783.02)	-	(783.02)	5.0%	-	-
0502-3200 - Exterior Improvements Synthetic Athletic Sur	1,234,700.00	-	-	-	-	-	-	-	-	-
0502-3200 - Exterior Improvements Fencing	1,067,430.00	-	-	-	-	-	-	-	-	-
0502-3200 - Exterior Improvements Landscaping	2,833,904.50	142,925.00	192,629.50	49,704.50	7,146.25	2,485.23	9,631.48	5.0%	-	47,219.27
0508-0000 - CO #1	219,338.20	-	-	-	-	-	-	-	-	-
0508-0000 - CO #2	33,232.26	31,946.94	31,946.94	-	1,597.34	-	1,597.34	5.0%	-	-
0508-0000 - CO #3	68,565.19	55,814.67	55,814.67	-	2,790.62	-	2,790.62	5.0%	-	-
0508-0000 - CO #4	81,767.92	86,421.40	81,767.92	(4,653.48)	4,321.06	(232.67)	4,088.39	5.0%	-	(4,420.81)
0508-0000 - CO #5	43,331.14	21,686.19	21,686.19	-	1,084.31	-	1,084.31	5.0%	-	-
0508-0000 - CO #6	59,421.27	49,870.59	49,870.59	-	2,493.54	-	2,493.54	5.0%	-	-
0508-0000 - CO #7	81,699.59	45,093.16	61,837.00	16,743.84	2,254.66	837.20	3,091.86	5.0%	-	15,906.64
0508-0000 - CO #8	87,086.17	22,676.22	77,110.15	54,433.93	1,133.81	2,721.69	3,855.50	5.0%	-	51,712.24
0508-0000 - CO #9	67,036.27	2,009.45	18,320.95	16,311.50	100.48	815.58	916.06	5.0%	-	15,495.92
0508-0000 - CO #10	-	-	-	-	-	-	-	-	-	-
Totals:	235,028,825.01	91,967,952.32	93,767,234.49	1,799,282.17	4,081,074.94	89,498.28	4,170,573.22		-	1,709,783.89



February 28, 2022

AHS Building Committee c/o
Skanska USA Building
Attn: Mr. Jim Burrows

OFFICE: (617) 492 2200
FAX: (617) 876 9775

130 Bishop Allen Drive
Cambridge, MA 02139

hmfh.com

Re: Arlington High School, Additional Engineering Services re: change to natural gas to serve the temporary boiler

Dear Jim:

The design team, in particular herein the engineer, has been required to engineer the piping route required to accommodate changing from diesel fuel to natural gas to serve the temporary boiler at Fusco building. Please see attached Bala proposal for these efforts. The total proposed fee for this effort, inclusive of HMFH's 10% markup, is \$9,500 + \$950 = \$10,450.

Please let us know if you have any questions and we look forward to our continued work on this project.

Very truly yours,

HMFH Architects

A handwritten signature in blue ink that reads 'Lori Cowles'.

Lori Cowles, AIA
Principal

cc: T. Clarke, A. Duffy, HMFH

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Alicia Crothers, AIA
Andrea Yoder, AIA
Ania Matteson
Arthur S. Duffy, AIA
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Sara Rosenthal, AIA
Stephanie MacNeil, AIA
Suni Dillard, AIA
Tina Stanislaski, AIA
Tracey Clarke
Vassilios Valaes, AIA



February 25, 2022

Lori Cowles, AIA
Principal
HMFH Architects
130 Bishop Allen Drive
Cambridge, MA 02139

Re: Arlington High School
Consulting Engineering Services
Project No. 60-17-442-10
Additional Service Request # 7 – Fusco Temporary Boiler fuel change

Dear Lori,

Thank you for this opportunity to submit our Additional Service Request (ASR) for the Arlington High School project. This ASR is to cover the requested change of temporary fuel source (from diesel fuel to natural gas) feeding the temporary boiler for the Fusco building. The change of fuel type is the request of the Construction team per correspondence issued on October 28, 2021.

Please note that these services are not part of our original contract.

Work Includes:

- The proposed natural gas pipe routing through the Fusco building was provided to Bala by the Consigli Construction team via handsketch.
- Bala shall illustrate this natural gas pipe routing through the Fusco building on the Bala Plumbing design drawings. Bala shall utilize the exact pipe routing suggested by Consigli, unless said routing brings natural gas piping through spaces not suited for natural gas piping (such as through stairwells or egress corridors) and in which case it shall be verified by other than Bala that pipe routing is code compliant.
- Pipe routing on Bala drawings shall be illustrated via single line representation.
- Bala shall provide the natural gas piping size on the design drawings.

Work Excluded:

- Pipe length and number of fittings to be provided to Bala for verification of gas pipe size.
- Pipe size to be also determined by Bala based on gas load and information from equipment catalogue cut provided to Bala for the temporary boiler.
- Any gas company coordination required shall be completed by other than Bala including as far as confirming that the gas company regulator can supply the required minimum gas pressure and flow for all intended equipment.

COMPENSATION

Compensation to Bala Consulting Engineers for the additional engineering services described above shall be a fixed fee of **Nine Thousand Five Hundred Twenty Dollars (\$9,500)**.

A summary of our fees to date for this project is as follows:

Original Contract Value	\$ 2,682,500
Additional Service Request #1	\$ 30,000
Additional Services Request #2	\$ 26,700
Additional Services Request #3	\$ 16,200
Additional Services Request #4	\$ 3,430
Additional Services Request #5	\$ 2,500
Additional Services Request #6	\$ 6,220
Additional Services Request #7	<u>\$ 9,500</u>
TOTAL	\$ 2,777,050

The terms and conditions of this ASR shall be the same as the original proposal dated May 31, 2019. This ASR must be signed and returned prior to the start of work.

Thank you for the opportunity to offer our services. If you concur with the above, please sign and return one copy of this letter to our office. This letter will then constitute an agreement between HMFH Architects and TMP Consulting Engineers, Inc., doing business as Bala Consulting Engineers.

Should you have any questions, please advise.

Very truly yours,

BALA CONSULTING ENGINEERS

HMFH ARCHITECTS



Keith D. Prata PE, LEED AP
Mechanical Department Manager

EGD/TKM/CMW/KJC/clb

cc: Acctg. - Bala

Accepted

Title

Date

Finance Subcommittee Meeting
Thursday, February 17, 2022
4:00 PM – 5:00 PM
Conducted by Remote Participation
Meeting Minutes

Attendees: Adam Chapdelaine, Sandy Pooler, John Cole, Mike Mason (4:12 PM)
Jim Burrows, Sy Nguyen, Victoria Clifford, Skanska USA Building, Inc.

Call to order: 4:05 PM.

Sandy Pooler, Deputy Town Manager, opened the meeting conducted by remote participation as outlined in Governor Baker's order suspending certain provisions of the open meeting law on March 12, 2020, and explained how votes would be taken.

Budget Update / Change Log Review

- Skanska gave an overall budget update
- Skanska gave an overall update on the change logs
- Pushing Consigli to closeout open CR's

Mike Mason joined at 4:12 PM

Change Order #10 Review/Approval

- Skanska presented Change Order #10 for a total of \$78,845.73 and recommended approval.
- The following Change Requests (CR's) were included:

CR#	Description	Net Added
CR 217R1	ASI-128 Various steel revisions Bldg B.	\$6,153.49
CR 245	RFI-342.1 Add condensate drain & piping at Rm 221A.	\$6,161.47
CR 264R1	RFI-545 HRCU Electrical discrepancy (mat'l premium)	\$13,574.27
CR 273R1	ASI-169 Revisions to Steel Part B & E	\$17,784.78
CR 283	RFI-542 Added Ice-maker drains and piping Bldg. D	\$3,457.64
CR 290	ASI-123 Plumb Revs in Kitchen Equi & Elec connection to heat trace	\$8,595.02
CR 301	RFI-533 Added HWSR piping Bldg B 3 rd floor.	\$15,227.61
CR 313	RFI-476.1 Dressing Room Elec device relocation (T&M)	\$3,424.25
CR 316	ASI-186 Revs to Acid-Neutralizing Tank pipe configuration and valves	\$4,467.10

- John Cole asked Skanska to confirm if the comma in total for CR313 affected CO#10 total.

Change Order #11 Review/Approval

- Skanska presented Change Order #10 for a total of \$108,518.53 and recommended the Finance Subcommittee recommends approval to the School Building Committee.
- The following Change Requests (CR's) were included:

CR#	Description	Net Added
CR 147.1	FP at Makerspace woodshop ductwork	\$53, 397.73
CR 243A	Subcontractor cost associated with provisions for utilizing permanent	\$44,524.94
CR 317 R1	ASI-187 Misc. Steel Revisions Bldg. A,B,C (Phase 2,3)	\$4,152.76
CR 323	RFI-528 Add Electric Boiler Emergency Disconnect Switch (T&M)	\$6,443.10

Consigli Req #22 Review/Approval

- Skanska recommended approval of the Consigli AHS Requisition #20 for \$2,879,798.02.
- No further comments from the FSC.

Sandy Pooler asked for a motion to approve the following votes:

1. Motion to approve Consigli AHS Requisition #22 for \$2,879,798.02
2. Motion to approve Change Order No. 10 for a total of \$78,845.73.
3. Motion to recommend approval to the AHS Building Committee for Change Order No. 11 for a total of \$108,518.53.
4. Motion to approve the 1/13/2022 Finance Subcommittee Meeting Minutes.

John Cole made the motion. Adam Chapdelaine seconded the motion.

Sandy Pooler called a roll call vote:

- Adam Chapdelaine: Yes
- Mike Mason: Yes
- Sandy Pooler: Yes
- John Cole: Yes

Motion passed unanimously.

John Cole moved to adjourn. Mike Mason seconded the motion.

Sandy Pooler called a roll call vote:

- Adam Chapdelaine: Yes
- Mike Mason: Yes
- Sandy Pooler: Yes
- John Cole: Yes

Motion passed unanimously.

Meeting adjourned at 4:25 PM.